New Jersey Pinelands Commission Long-Term Economic Monitoring Program

2008 Annual Report



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NEW JERSEY PINELANDS LONG-TERM ECONOMIC MONITORING PROGRAM 2008 ANNUAL REPORT

December 2008

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Acknowledgments

The 2008 Annual Report of the Pinelands Long-Term Economic Monitoring Program was prepared by Pinelands Commission economist Tony O'Donnell.

The report will be available for review on the Pinelands Commission's web site at http://www.nj.gov/pinelands. The raw data used to create the report will also be available for download.

The report is also available from the Pinelands Commission free of charge on CD-ROM. Requests can be mailed to:

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Executive Summary

This report provides results of an ongoing economic monitoring program that tracks economic conditions in the Pinelands region. The Pinelands is the nation's first federal reserve. Established in 1978, it covers an area of over one million acres in the heart of Southern New Jersey. The Pinelands Comprehensive Management Plan (CMP) was adopted in 1981. The plan establishes minimum standards for land use throughout the region, which are implemented at the local level through municipal ordinances.

This report presents demographic data and describes key trends in the areas of population, real estate, economic growth, and municipal finance. Several core variables are continually monitored in each of these areas every year. A smaller number of supplemental variables are also examined but change from year to year. The basic unit of analysis is determined by the data. Municipal-level data is available in most cases, and county-level data is utilized when municipal data is not available. The general analytical approach involves comparing economic trends (from 1980 onward) of the Pinelands municipalities to other regions outside of the Pinelands (i.e., Non-Pinelands, Southern New Jersey, and the State). In this report, "The Pinelands" refers to an aggregate of 47 municipalities that have at least 10% of their land area within the state-designated Pinelands boundary. The "Non-Pinelands" refers to an aggregate of the remaining 155 municipalities in the eight counties of Southern New Jersey. In some instances, certain variables from the US Census are available below the municipal level at the census block or census block group level. Trends inside and outside the Pinelands boundary can be distinguished at those geographic levels.

Supplemental population estimate data for 2001 through 2006 reveal that the Pinelands municipalities continue to grow at a faster rate than the Non-Pinelands municipalities. According to the estimates, the Pinelands municipal population grew by almost 67,000 between 2000 and 2006, an increase of 10.9% (compared to an increase of 4.4% in the Non-Pinelands). Previous population analysis at the census block level revealed that 277,000 people lived within the actual Pinelands boundary in 2000, a 5.5% increase over the 1990 population of 262,510. By contrast, the population in the portion of the Pinelands municipalities that lie outside of the Pinelands boundary grew by 14.3%, from 361,009 in 1990 to 412,557 in 2000. Additional analysis of population demographics demonstrated that a number of Pinelands municipalities have a high concentration of senior residents. A census block group level analysis determined that a somewhat higher percentage of senior citizens live in the portion of Pinelands municipalities that lies outside the boundary compared to the portion inside the boundary. A new supplemental variable added for the 2008 report examines the NJ Uniform Crime statistics. While there is not a significant difference between the Pinelands and Non-Pinelands in regards to violent crime. it appears that the non-violent crime rate in the suburban sections of the Pinelands region is about 50% lower than in the Non-Pinelands for 2007.

New data for local property values and residential development reflect a cooling off of the national real estate market in 2007. On average, more building permits continue to be issued in Pinelands municipalities than all other regions of the state. However, building permit activity decreased for the fourth consecutive year in the Pinelands in 2007 while also declining to a lesser extent in the Non-Pinelands. Close examination of the data reveals that this year's decline in activity was again very uniform across the region. Most building permits were issued along the northern, eastern, and western edges of the Pinelands region where development pressures and permitted residential densities are greatest. Real estate transactions slowed significantly in 2007 following 2006's modest decline in activity. The

previous nine consecutive years (1997-2005) were a period of rapid growth in the real estate market. Real estate transactions dropped by more than 20% across all regions in 2007. Similar to building permits, the bulk of home sales took place along the northern, eastern, and western edges of the Pinelands region. The inflation-adjusted median selling prices of homes stabilized in 2007. This follows a 5- year period from 2001-2006 that saw Pinelands home prices increase by 87%. For the second year in a row, the median sales price in the Pinelands was higher than in the Non-Pinelands (by 3.0%). As recently as 2001, Pinelands median sales prices were 7% lower than in the Non-Pinelands. Supplemental census block group data from the 2000 Census of Housing indicates that historically the area within the Pinelands boundary experienced a significant drop in housing construction from the 1970s to the 1980s, while the portion of the Pinelands municipalities that lies outside the boundary had the same level of home construction in the 1980s as in the 1970s. Both regions had an equal percentage of homes built during the 1990s. A new supplemental variable for this report examines the breakdown of building permits by type using construction costs for both new and altered residential and non-residential development. The data confirms the expected hypothesis that in the Pinelands region, development tilts more heavily to the residential side than the Non-Pinelands, while also showing that a larger percentage of the Pinelands development is in new construction (70%) in comparison to the Non-Pinelands (59%).

Findings in the area of economic growth revealed a number of trends. After a small one year up tick in unemployment in 2006, unemployment rates showed a small uniform decrease across all regions in 2007. Unemployment rates are still at historically low levels across New Jersey. The unemployment rate fell 0.1% in the Pinelands and 0.4% in the Non-Pinelands in 2007, finishing the year at 4.7% and 4.8% respectively. Both the Pinelands and the Non-Pinelands are slightly above the national unemployment rate of 4.6%, while statewide (4.2% for 2007) the rate is considerably lower than the national rate. No new municipal data for employment, establishments, and wages was available this year, but previous analyses show that the Pinelands region has made significant gains in both employment and new establishments during the period from 1998 to 2003. The largest private employment sectors in Southern New Jersey in 2003 were retail, healthcare, and accommodation and food service. The US Census Bureau released its quintennial Census of Retail Trade for 2002 last year, and it showed per capita retail sales increasing by 20% in the Pinelands from 1997 to 2002. In contrast, statewide per capita sales increased only 6.8% over the same period, and the Non-Pinelands essentially remained the same (+0.2%).

Following an across the board 2% decline in 2004, assessed farmland acreage recorded another decline in 2005 across all regions. Assessed acres in the Pinelands dropped by 8.4% in 2005, while farm acreage decreased in the Non-Pinelands in 2005 by 2.4%. This marked the ninth consecutive year of decline in acreage for the Non-Pinelands, and the largest one year percentage decline in the Pinelands for the entire monitoring period. Since one-year changes in acreage can be affected by seasonal factors such as weather and economic conditions, it is often more helpful to look at five-year averages to confirm trends in agriculture. In this respect, somewhat more encouraging news comes from the Census of Agriculture. According to the 2002 census, the seven Pinelands counties for the first time now account for more than half of the agricultural sales statewide. They continue to be relatively more efficient than the rest of the state, achieving this level of sales while comprising only 36% of acres farmed statewide. In addition, over the five-year period from 1997 to 2002, Pinelands counties increased their acres in farming by 2.3% while the remainder of the state experienced a 10.2% decline in farm acreage. Favorable growing and

economic conditions led to the largest increases in production and price for the blueberry industry than has been seen for over two decades in 2006. While cranberry prices remained stable, a small drop in production in 2006 led to a slight decrease in the value of utilized production for cranberries. The value in utilized production of cranberries decreased for only the second time in seven years, falling 9% to \$17.8 million. This decrease was due primarily to a 10% decline in production. Cranberry prices increased by 1% for the year to finish at \$36.99 per 100 lbs. Meanwhile, the blueberry industry experienced explosive growth in 2006, with the value of utilized production increasing by 46.2% for the year. This increase was due to two factors: a 15.6% increase in production to 52 million pounds for the season, along with a rise of 26.8% in blueberry prices to \$1.68 per pound. This is the highest price for blueberries in 18 years.

Monitoring in the municipal finance category indicates that the Pinelands financial picture remains relatively strong compared to the rest of South Jersey. Historically, average residential tax bills and effective property tax rates have been lower in the Pinelands than the remainder of the State, and new data reinforces the positive gap between property taxes in the Pinelands region versus other regions. The average residential property tax bill grew slightly more quickly in the Pinelands than the Non-Pinelands in 2007 (Pines +5.7% vs. +4.5% for the Non-Pines). The average total residential tax bills were still almost \$700 lower in the Pinelands than in the Non-Pinelands in 2007. Despite the slowdown in real estate transactions, equalized property values rose in all regions of the state for the tenth consecutive year in 2007, with the Pinelands region registering an increase of 5.2% compared to an increase statewide of 3% for the year. Fueled by still increasing home values, effective tax rates fell for the seventh consecutive year across all regions in 2007. The Pinelands has experienced the steepest decline of any region over the last seven years, with effective tax rates dropping 32% for the period. Data on local municipal-purpose revenues indicated that the local municipal budgets of both the Pinelands and Non-Pinelands municipalities decreased by 15% in 2007, due primarily to a sharp drop in miscellaneous revenues across both regions. State aid to all regions was essentially frozen in 2007 at 2006 levels. When factoring in the cost of living, the real decrease in aid was around 3% across all regions. Updated statistics collected for 2007 continue to show that the Pinelands have a greater percentage of valuation in the vacant and residential categories than the Non-Pinelands region. The percentage of valuation in the vacant category continued to decrease, while the percentage in valuation in the residential category continued to increase.

In addition to ongoing data collection and analysis, special studies represent the second major component of the economic monitoring program. Because the overall trends tracked by the Long-Term Economic Monitoring Program can mask the conditions of individual municipalities, a current special study focuses on characterizing and identifying municipalities that are experiencing poor fiscal health. Although difficult to define, poor fiscal health can be described as being below a given standard with respect to municipalities' social, economic, physical, and fiscal conditions. The project is being administered by Pinelands Commission staff and conducted in consultation with the Pinelands Municipal Council. A preliminary draft of the report for the project was released in July of 2008 and may ultimately provide a basis for legislation to allocate special aid to the most strained towns.

1. Introduction

1.1 The Long Term Economic Monitoring Program

The Pinelands National Reserve was established in 1978 and is the nation's first federal reserve. It covers an area of over one million acres in the heart of southern New Jersey. The Pinelands Comprehensive Management Plan (CMP) was adopted in 1981 and manages land use activities at regional and local levels. A blend of federal, state, and local programs is responsible for safeguarding the environmental and cultural resources of the region. Of particular importance to the regional economy are land use policies and controls included in the CMP and implemented by municipalities. Some of these policies and controls significantly limit development in designated Preservation, Forest, and Agricultural management areas and encourage development in other districts, particularly Regional Growth and Town Areas. These growth areas tend to be located in and around already developed areas, many of which have access to central sewer systems and other infrastructure. Recent studies have suggested that the CMP has been successful in steering growth away from conservation areas toward growth areas.¹

Of major interest to landowners, residents, and businesses in the region is the economic impact of the regulations on land values, real estate markets, local government finances, and the economic performance of farms and businesses. A number of studies have been conducted since the inception of the CMP in 1981 that have addressed these issues (see Appendix A). These efforts, while directed at measuring the short-term impacts of the CMP, have recognized the importance of monitoring economic and fiscal impacts over the long term.

As part of its second full review of the CMP, the Commission convened a panel of economic experts in 1992 to review the prior studies and develop recommendations for future Commission efforts. Later that year, the Commission formally endorsed the panel's recommendation to monitor the region's economy on a continuing basis. Consequently, the Pinelands Commission prepared a proposal (July 1994) to the National Park Service (NPS) to institute a long-term economic monitoring program, which was incorporated into a September 1994 Cooperative Agreement between the two agencies.

The New Jersey Pinelands Commission Long-Term Economic Monitoring Program First Annual Report was released after three years of planning in 1997. The document, the first in a series of annual reports, presented data and described trends for key indicators in the areas of property values, economic growth, and municipal finance. The First Annual Report and its accompanying Executive Summary also identified potential topics for future study. Subsequent annual reports updated most of the data in the First Annual Report. This 2008 Annual Report is the twelfth in the series and augments most of the data used to develop the previous reports but also includes a variety of information not found in previous reports. A copy of the 2008 Annual Report is available on CD-ROM by writing to the Pinelands Commission at P.O. Box 7, New Lisbon, NJ, 08064. The report will be available on the Pinelands Commission World Wide Web site at http://www.nj.gov/pinelands.

1.2 Program Goal and Objectives

The fundamental goal of the Long-Term Economic Monitoring Program for the Pinelands is to continually evaluate the health of the economy of the Pinelands region in an objective and reliable way. The economic monitoring program, in conjunction with an ongoing

¹ See "Managing Land Use and Land-Cover Change: The New Jersey Pinelands Biosphere Reserve" by Walker and Solecki, *Annals of the Association of American Geographers*, 89(2), 1999, p. 220-237.

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environmental monitoring program, provides essential information for consideration by the Pinelands Commission as it seeks to meet the mandates set forth in the federal and state Pinelands legislation.

The program was designed to accomplish several principal objectives:

- 1. Address key segments of the region's economy while being flexible enough to allow for the analysis of special topics that are identified periodically;
- 2. Establish a means for comparing Pinelands economic segments with similar areas in the state not located within Pinelands designated boundaries;
- 3. Establish a means for evaluating economic segments over time so that Pinelands-related trends can be distinguished from general trends;
- 4. Provide for analyses to be conducted in an impartial and objective manner; and
- 5. Be designed and implemented in a cost-effective manner so that the program's financial requirements can be sustained over time.

These objectives are accomplished by two means: through the publication of an annual report of indicators, and through the commissioning of periodic special studies. The annual report takes the "temperature" of the regional economy, while special studies take a more indepth look at specific topics. The following two chapters outline the structure and design of both components.

1.3 Program Administration

The development and implementation of the Long-Term Economic Monitoring Program is a collaborative effort. Under the terms of the cooperative agreement with the National Park Service (NPS) the Commission receives funding for personnel and other resources, including a full-time economist, managerial, and technical support staff (GIS staff and others on an asneeded basis), expert consultants, data acquisition, equipment, and informational materials. The NPS also can provide oversight and substantive input on an ongoing basis through its own Technical Advisory Committee.

The Commission staff members have primary responsibility for the day-to-day implementation of the program, including acquisition and analysis of data; coordination with the NPS, expert advisory committee, and public; and development of all reports and other products. Perhaps most importantly, the Commission will consider the results of these monitoring efforts as it identifies the need for in-depth economic studies and continues to refine and improve Pinelands protection policies. The data will also be used for other Commission analyses and independent efforts.

2. Annual Reports

2.1 Data Categories

Ongoing data collection and analysis involves continual monitoring of key economic indicators to establish a historical basis for trend comparison and enables analysis of Pinelands activity in relation to regional and statewide patterns. The ongoing reporting of data will allow the Commission to target topics for in-depth research to determine the basis of economic well-being of Pinelands communities and potential cause-and-effect relationships. Data for key variables are collected annually when possible and provide information essential to an understanding of the character of the Pinelands economy. In general, these data are collected from secondary sources. The annually updated data are considered to be the core variables of the report.

The first annual report included a provision for adding supplemental data, and this provision was used for the first time in the 2003 annual report. The 2008 annual report continues this trend with the introduction of some new supplements. Supplemental variables provide valuable information and insight into the Pinelands and regional economy, but are not considered core variables because they cannot be updated regularly. For instance, the US Census data is extremely valuable, but since it is only updated every 10 years, most of it cannot be considered core. If reliable data can be obtained for a sufficient period of time, supplemental variables can become core in the future.

2.2 Core Variables Selected for Long-Term Monitoring

Four primary areas of inquiry are monitored: population and demographics, land and housing values and residential development, the business climate and commerce of the region, and the fiscal health of municipalities. Within each of these areas, several core variables are monitored. Collectively, these variables provide insight into the overall health of the Pinelands' economy; individually, they offer detailed information on specific features of interest. Table 2.2 identifies the monitoring period, frequency of collection, and method of analysis for the core variables tracked for this report. Each of the variable groups is described below.

Population and Demographics

This section examines basic information regarding the population of Southern New Jersey and the Pinelands that is necessary for any economic or geographic analysis. The core variables in this section are: population at the municipal and census block level, population change, age demographics, and annual population estimates. Population growth drives both consumer demand and reflects labor supply, and therefore is an extremely important indicator of economic growth. Age demographics affect the level and type of municipal services provided and influence housing markets.

Property Values and Residential Development

At the heart of many of the controversies generated by the implementation of the Pinelands land use regulations is the issue of land values. To the extent that development controls affect the value of land, current and prospective landowners will be affected, as will tax ratables associated with vacant land. This group of variables identifies trends in development pressures and measures the differences in values of housing and land in different areas of the region. The value of property depends in part on the permitted use that yields the highest rate of return to the owner, often called "the highest and best use." Permitted uses on vacant land

and farmlands in many parts of the Pinelands have been limited significantly and therefore land prices may be adversely affected.

In addition, land use regulation may also affect the value, type and supply of housing and other development activities. For example, the implementation of the CMP has the potential to increase housing prices, both through a reduction in supply in certain areas and by providing a permanent amenity to residents of the region. Conversely, other factors, such as declining or shifting job markets, if they exist, may cause housing price decreases. Building permits, median selling price of homes, and volume of residential real estate transactions are the three variables tracked annually for this variable group.

Economic Growth

The observation of trends in indicators that are directly tied to the prosperity of a region's residents is central to the measurement of the economic well-being of the region. As such, monitoring of employment, income, and the business climate is essential to this program. This group of variables measures the prosperity and viability of business in the region. Tracking economic growth variables over time and comparing them across regions may show differences and indicate areas for special study. To the extent that the CMP has had an effect on the regional economy, there will be both direct and indirect (multiplier) impacts on employment and wages. Impacts (positive or negative) may be substantially different across business sectors.

Seven economic growth variables are tracked annually for this report: (1) Retail sales per capita, (2) Per capita income, (3) Unemployment, (4) Employment, establishments, and wages, (5) Farmland assessed acreage, (6) Census of agriculture data, and (7) Blueberry and cranberry production.

Municipal Finance

The long-term monitoring of municipal fiscal trends is interesting for several reasons. As discussed in previous studies, Pinelands regulations have affected vacant land assessments in some municipalities (see, for example, *Economic & Fiscal Impacts of the Pinelands Comprehensive Management Plan*, New Jersey Pinelands Commission, 1983 and 1985). In all but one case, however, the short-term impact on tax rates was relatively minor. Public acquisitions of land in a few municipalities have also resulted in a loss of tax ratables. While these problems were mitigated in the short-term by state reimbursement programs, their longrange impacts should be evaluated.

The level of development in a municipality also affects both municipal ratable bases and expenditures for public services and facilities. Development is associated with growth in ratables, although capital and operating costs for schools, roads, and other public facilities will also increase. Whether development results in a net fiscal benefit or cost to the community depends in large part on the type of development (e.g., commercial, industrial, apartments, single-family houses, or retirement communities). Density may also have an effect.

Data is obtained from the New Jersey Department of Community Affairs (DCA), Division of Local Government Services, which publishes property tax information on an annual basis. Four variables are tracked annually for this variable group: average residential property tax bill, state equalized valuation (total value of taxable property), effective tax rate, and assessment class proportions in municipal tax revenues.

Table 2.2 Summary of Core Variables in Annual Report

Name	Years Collected ²	Years Added ³	Frequency of Collection	Method of Analysis
Municipal Population	1980, 1990, 2000	None	Decennial	Inside/Outside Pinelands
Census Block Population	1990, 2000	None	Decennial	Census Block, Inside/Outside Pinelands Boundary
Age Demographics	1980, 1990, 2000	None	Decennial	Inside/Outside Pinelands, Census Block Group (2000)
Population Estimates	2001-2006	2006	Annual	Inside/Outside Pinelands
Building Permits	1980-2007	2007	Annual	Inside/Outside Pinelands
Median Selling Prices of Homes	1988-2007	2007	Annual	Inside/Outside Pinelands
Volume of Real Estate Transactions	1988-2007	2007	Annual	Inside/Outside Pinelands
Retail Sales & Establishments	1992, 1997, 2002	None	Quintennial	County, Place
Income	1979, 1989, 1999	None	Decennial	Inside/Outside Pinelands
Unemployment	1980-2007	2007	Annual	Inside/Outside Pinelands
Employment	1993-1999, 2003 (municipal level)	None (county level)	Annual	Inside/Outside Pinelands (93-99), County (91-02)
Number of Establishments	1993-1999, 2003 (municipal level)	None (county level)	Annual	Inside/Outside Pinelands (93-99), County (91-02)
Payroll by Major Industry Sector	1993-1999, 2003 (municipal level)	None (county level)	Annual	Inside/Outside Pinelands (93-99), County (91-02)
Farmland Assessed Acreage	1980-1984, 1986-2005	2005	Annual	Inside/Outside Pinelands
Agricultural Census Data	1982, 1987, 1992, 1997, 2002	None	Quintennial	County
Blueberry and Cranberry Production	1972-2006	2006	Annual	State
Average Residential Property Tax Bill	1983-2007	2007	Annual	Inside/Outside Pinelands
Equalized Property Value	1980-2007	2007	Annual	Inside/Outside Pinelands
Effective Tax Rate	1980-2007	2007	Annual	Inside/Outside Pinelands

² Data acquisition is based on the availability of data. An effort is made to acquire data for every year available from 1980 to the present.

Refers to addition from previous report and specifies which years of data are new in this update.

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Name	Years Collected ²	Years Added ³	Frequency of Collection	Method of Analysis
Assessment Class Proportions in Municipal Valuation	1980-1994, 2002-2007	2007	Annual	Inside/Outside Pinelands
Local Municipal Purpose Revenues	1995-2007	2007	Annual	Inside/Outside Pinelands

2.3 Supplemental Variables

In addition to continually updating the supplemental variables added in last year's report, two new supplemental variables have been added this year in the Population section and the Real Estate section of the report. Supplemental variables provide valuable information and insight into the Pinelands and regional economy, but are not tracked annually as core variables because they are not updated regularly. If the data is viable and a sufficient time series can be obtained, supplements could become core.

The first of the new supplements listed below details the crime statistics for each municipality in the region. Statistics on violent and non-violent crime are often cited in the literature as being important indicators of the quality of life in a municipality. The data that has been collected and analyzed comes from the New Jersey State Police uniform crime report and is a comprehensive and standardized account of various levels of criminal activity in the region. The second new supplement below measures the estimated cost of construction by Building Permit type in each municipality. While the Long Term Economic Monitoring Program has long tracked the absolute number of permits for new residential units to gauge new development in the region, in recent years data has become available to track the construction costs for both new and altered existing units at both the residential and non-residential levels. By examining the costs associated with the different types of permits, a more detailed view of the development picture can be obtained.

Table 2.3a Summary of Supplemental Variables in the 2008 Annual Report

Name	Source	Years Collected	Method of Analysis
Uniform Crime Report	NJ State Police	2007	Inside / Outside
Statistics			Pinelands
Estimated Cost of	NJ DCA Division of	1997-2006	Inside / Outside
Construction by Building	Codes and Standards		Pinelands
Permit Type			

Table 2.3b Summary of Supplemental Variables in the Previous (2007) Annual Report

Name	Source	Years Collected	Method of Analysis
Gross Debt Per Capita	NJ DCA Division of	2005	Inside / Outside
	Local Govt Services		Pinelands
Gross Debt Ratio	NJ DCA Division of	2005	Inside / Outside
	Local Govt Services		Pinelands
School Student Population	NJ Dept of Education	2002, 2005,	Inside / Outside
·		2007	Pinelands
Certificates of Occupancy	NJ DCA Division of	2005, 2006	Inside / Outside
for Non-Residential Uses	Codes and Standards		Pinelands

2.4 Geographic Scale: Defining the Pinelands

Concise definitions of the various levels of geography used in this report can be found on page 14, which is the first page of the indicators section. This section provides a detailed geographical description and the definition of the "Pinelands" that is used in this report.

The state-designated Pinelands Area encompasses portions of seven counties in Southern New Jersey: Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, and Ocean. There are 53 municipalities that have part or all of their land in the Pinelands Area. Most of the variables monitored in the report are obtained at the municipal level, since this is typically the most precise level of geography available. Municipal values are aggregated into Pinelands

and Non-Pinelands regions, based on a "10% rule." Any municipality with at least 10% of its land in the Pinelands Area is considered to be in the Pinelands region, and all remaining municipalities in southern New Jersey (those located in the seven counties mentioned above, plus Salem County) are considered to be Non-Pinelands municipalities. Of the 53 municipalities completely or partially located in the Pinelands Area, 47 were classified as inside, while six⁴ were classified as outside, joining the remaining 149 municipalities located entirely outside the Pinelands Area. In summary, the term "Pinelands," as used in this report, refers to 47 municipalities that have at least 10% of their land in the state-designated Pinelands Area, while the term "Non-Pinelands" refers to the remaining 155 municipalities of Southern New Jersey.

While the aggregate method used in this report is the best currently available, it is not ideal. Many municipalities are split by the Pinelands boundary, so activities and phenomena present outside the Pinelands boundary are counted as occurring inside the Pinelands. In some cases areas inside a Pinelands municipality, but outside the Pinelands boundary, are growing rapidly. This growth can distort the Pinelands aggregate, indicating that the Pinelands is growing rapidly, while in reality much of the growth is occurring just outside of the Pinelands boundary.

Obtaining data at a sub-municipal level circumvents this problem. For instance, the population for each Pinelands municipality was calculated at the block level to obtain population counts for areas of Pinelands municipalities inside and outside the Pinelands boundary. The results of the count showed that approximately 277,000 people lived inside the Pinelands boundary in 2000, while approximately 413,000 people lived outside the boundary, but within Pinelands municipalities. Population growth between 1990 and 2000 was 5.5% inside the boundary, and 14.3% outside the boundary within Pinelands municipalities. Clearly, the Pinelands aggregates are including a fair amount of Non-Pinelands activity. Additional data at the census block and census block group level is being sought. Other methods of obtaining sub-municipal data are also being explored, such as using GIS to pinpoint variables with address information to streets, so an inside / outside boundary count can be made. For variables where sub-municipal census data is available, the terms "Pinelands Municipal Area Inside the Boundary," and "Pinelands Municipal Area Outside the Boundary," are used to refer to the areas of Pineland's municipalities that are split by the state-designated Pinelands Area boundary.

Despite these limitations, the Inside / Outside Pinelands municipal aggregate system is currently the most viable method for comparing the Pinelands to the Non-Pinelands regions based on data currently available. The census block analysis revealed that certain municipalities with as much as 30% of their land in the Pinelands had practically no residents in the Pinelands. Analysis has shown that altering the 10% percent rule in favor of a 20, 25 or 30% rule yields no significant difference in the value of the aggregates. Strictly identifying whether an activity is occurring inside or outside of the boundary may be unnecessary to some extent, as economic activity occurs regardless of where boundaries exists. Areas inside and outside of the boundary interact economically with each other, and both interact with other regions. Consequently, this report retains the 10% rule to define inside and outside municipalities.

Municipal-level data is unavailable in certain cases. The Agricultural Census and Retail Census are restricted to county-level data. For the Agricultural Census data, Pinelands counties (Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, and Ocean) are compared to Non-Pinelands counties (Salem plus the 13 counties of North Jersey). For the Retail Census and Covered Employment data (employment, establishment, and wages), information is presented for the eight Southern New Jersey counties along with totals for the

⁴ The six are: Corbin City, North Hanover Township, Springfield Township, Berlin Borough, Vineland City, and Dover Township.

entire state. Because county-level data are necessarily limited in the amount of geographic information they can convey, a chart showing the contribution of each county to Pinelands acreage is provided in Appendix B to aid in interpretation whenever county data are presented. Blueberry and cranberry production data are available only at the state level, but since these crops are found almost exclusively within the Pinelands, statewide figures provide ample information for the purposes of this analysis.

2.5 Presentation of Data

Data in the annual report is arranged by variable and is grouped into four main sections. Each core variable is designated by section (population, real estate, economy, and municipal finance) and by number. When a new section begins, numeration restarts at 1. For instance, there are population variables 1 through 4, Real Estate variables 1 through 4, etc. Numbers followed by an "S" indicate supplemental variables. Supplemental variables always appear at the end of a section. A checkbox in the upper right hand corner of the page indicates whether a variable was updated since the last report. A variable is considered updated if additional years of recent data were added or further analysis of previous data was conducted.

Pinelands and Non-Pinelands aggregates are charted, along with Southern New Jersey and state averages. Data is obtained as far back as 1980, when possible. In most cases, averages for each region are calculated by averaging the values for all municipalities in the region. In a few instances, values are not averages but are sums for the region. For example, retail establishments per capita for each region is calculated by dividing the total population of the region by the total number of establishments in each region. It is not calculated by averaging the ratio of each municipality to get a regional average.

Data is presented by Pinelands municipality for some variables in the form of tables, and certain variables are mapped for all of Southern New Jersey. While the aggregates provide a regional picture, the tables and maps illustrate the degree of variation that exists among the municipalities. Tables display and sort data for the 47 "inside" municipalities, and record data for five of the "outside" municipalities separately at the bottom of the table. The sorting column(s) for each table vary and are indicated by a shaded column heading. Tables and graphs embedded in the text are not enumerated.

Variables in the Annual Report that describe monetary amounts are adjusted for inflation using the Consumer Price Index (CPI-U) from the U.S. Bureau of Labor Statistics, shown in 2006 dollars. This is an update from the 2006 annual report, where variables were keyed to the 2005 CPI. Only sections that received a substantial update this year (as indicated by a check mark in the upper right hand corner "Update" box) have been adjusted to the 2006 CPI. Variables in the Fact Book are not inflation adjusted, as the purpose is to display the most recent information available and not to monitor change over time.

Indexes were derived for many variables in this report. Indexing is a common technique for characterizing economic time series data, and it measures how variables change over time. Change is measured relative to a pre-selected base period. In this report, the base period selected is usually the first year that data for the variable are available. As an example, if 1988

Long Term Economic Monitoring Program

⁵ See "Unit of Analysis" for each variable to ascertain whether municipal averages or regional sums are used. 6 The five municipalities counted as "outside" the Pinelands in this report have between one and ten percent of their land in the Pinelands. Toms River Township is excluded, as less than ½ of one percent of its land is in the Pinelands.

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were selected as the base period for housing transactions, the 1988 index number for housing transactions would be 1.00. The remaining index numbers are calculated by dividing each year's total housing transactions by total 1988 housing transactions. A 1999 index number of 1.10 indicates that 1999 housing transactions are 10% greater than 1988 levels. Portraying multiple indexes for different regions on one graph enables easy comparison of relative changes among those groups.

The Municipal Fact Book was a new addition to the 2002 Annual Report, and was significantly updated and enhanced for the 2003 and 2004 reports. The 2008 Report uses the same format with a few minor changes. Economic data are arranged by Pinelands municipality rather than by variable, in order to provide a better understanding of the unique economic characteristics of each municipality. The fact sheets are arranged alphabetically by county, then by municipality. Variables for each municipality are listed beside the average value for all municipalities in Southern New Jersey and the municipality's rank for that variable among the 202 municipalities in Southern New Jersey. Additional information, such as census block data, population graphs, and map of development zones, is also provided. Fact sheets for each of the Southern New Jersey counties are also included in this year's report. The county sheets use the same format as the municipal sheets, with county values displayed beside the average Southern New Jersey County value and the county's rank among the eight counties.

The fact book is located in Appendix G. Additional resources in the appendix include: a list of reference materials, a table of Pinelands and southern New Jersey acreage by county, a map showing place names for all 202 towns in southern New Jersey, a description of Pinelands Management Areas, a map of Pinelands Management Areas, and a map of housing unit construction trends at the block group level from the 1940s to the 1990s.

3. Special Studies

Special studies represent the second major component of the monitoring program. Studies may be initiated in any year of the program. The ongoing data program will be highly instructive in selecting topics for special study to provide an in-depth examination on apparent differences between Pinelands and Non-Pinelands economic trends. Special studies may also provide an opportunity to augment ongoing data collection should a need be identified for primary (rather than secondary) data or for more geographically specific data.

First Study: Value-Added Blueberry Products (Complete)

The blueberry study was a partnership between Cook College at Rutgers University, the Pinelands Commission (supported through the National Park Service), and New Jersey's blueberry growers for the purpose of boosting the blueberry industry by creating a value added product. The study was successfully completed in November 2001, and a detailed explanation of the project can be found in the 2001 Annual Report. Development and marketing of value-added blueberry products will continue indefinitely through Blueberry Health, Inc. Blueberry Health buys blueberry pulp for products from New Jersey farmers, and reinvests its profits in blueberry research and product development.

Second Study: Indicators of Municipal Health (Underway)

At its September 1999 meeting, the Pinelands Municipal Council unanimously recommended that the Long-Term Economic Monitoring Program conduct a special project to identify and characterize municipalities experiencing poor health. Although difficult to define, poor municipal health can generally be described as being below a given standard with respect to municipalities' social, economic, physical, and fiscal conditions. The project is being administered by Pinelands Commission staff and conducted in consultation with the Pinelands Municipal Council.

In November 1999, the Pinelands Commission authorized the project as the second special study. The goals of the project are to: 1) produce a database of indicators that are reflective of municipalities' social, economic, physical, and fiscal conditions; 2) produce an objective, systematic and repeatable model which identifies municipalities that are experiencing poor health using the database of indicators; 3) select economically challenged communities using the results from the model; and 4) develop methods to calculate financial aid and/or other resources that may alleviate the degree of strain in the identified municipalities.

In January 2001, a short questionnaire was administered to municipal officials (i.e., mayors, CFO's, administrators, council members, etc.) of 36 municipalities. The questionnaire was designed to reveal municipal officials' opinions on indicators of fiscal health and on ways to measure and compare fiscal health among municipalities. In general, the results of the questionnaire suggest that the most pressing municipal health concerns of the Pinelands municipalities relate to a healthy tax base (i.e., a mix of commercial, industrial, and residential land), tax rates, and school costs. These themes are being examined more closely during the course of this project.

The preliminary design of the study consists of two parts. The first part focuses on a Pinelands and Non-Pinelands analysis of fiscal indicators. Based on responses from the

Long Term Economic Monitoring Program

⁷ All municipalities with at least 50% of their land within the Pinelands were included (33 municipalities) plus three additional municipalities which requested to be included.

questionnaires and the availability of data, a number of variables were examined including unemployment rates, tax rates, income levels, and the level of commercial and industrial ratables. The second part of the study identifies Pinelands towns that are most in need of fiscal assistance, and will design a corresponding funding model.

A preliminary draft for this study was presented to the Public and Governmental Programs Committee of the Pinelands Commission in July 2008. A copy of this draft is available for public review on the Pinelands web site. The final model to measure fiscal stress will use principal components analysis to arrive at a single fiscal stress number for all 566 municipalities in New Jersey. Principal components analysis is an objective statistical approach that combines several different variables into a single measurement (in this case, overall fiscal health). This method has been challenged and upheld in New Jersey courtrooms and is the basis upon which the NJ Department of Education assigns district factor groups that are used in state testing analysis. Preliminary findings show that the most severely stressed municipalities in the Pinelands region do rank among the top 10% of municipalities statewide in regards to fiscal stress.

The final steps of the fiscal health study are now underway. Various stakeholders are being asked to offer suggestions for improvement to the preliminary draft, and once that is done a finalized model will be adopted. At that point, the model will be run again with the most current data available and the results tabulated on an annual basis. It is anticipated that the findings from this study can act as a guideline for more efficiently channeling state aid to those municipalities who may have been shortchanged in the past.

Special Project: Housing Task Force (Complete)

In October 2003, the Pinelands Commission formed a Housing Task Force in order to update housing demand estimates in the Comprehensive Management Plan. The Economic Monitoring Program has been an integral part of the process, through analysis of population data, the collection and evaluation of population projections, estimating future housing units, defining and calculating vacant developable land using land use and land cover data, and allocating future population and housing to Pinelands development areas based on vacant land. The Task Force issued its final report in January 2007.

As part of this process, a *Pinelands Population Reference Guide* was created in order to gather population and housing data for the Pinelands for a range of geographic scales from 1970 through 2000 into one document. The reference guide is available on the Long-Term Economic Monitoring Program's 2004 Annual Report CD-ROM.

Special Project: Pinelands Development Credit Supply & Demand Study (Underway)

In the fall of 2005, the Pinelands Commission staff began a reexamination of the effectiveness of the Pinelands Development Credit (PDC) program. The PDC program is an integral tool in the implementation of the Comprehensive Management Plan. In order to facilitate the process of directing growth to appropriate areas in the Pinelands region, the PDC program was established to create a market for development rights in the Pinelands. Owners of properties in designated sending areas are afforded the opportunity to "sever" their development interests in their properties and sell those rights to land developers in receiving areas. The developers then use these rights to expand their allowable development densities in regional growth areas, thus directing growth from preservation areas to more suitable growth areas. The owners of land in preservation areas are thus compensated monetarily in exchange for deed-restricting their land from future development.

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Since the PDC program is market-driven, its ultimate success depends upon a healthy balance between supply and demand pressures in the land development market in the Pinelands. Initially, the PDC program was slow to be utilized by both developers and land owners in the region. However, in recent years there has been quite a bit of activity in the PDC market, with the price of a development right rising from an initial value of \$2,500 in 1981 to a high of \$40,000 in 2006. Prices fell during 2007; the mean sales price for a development right in 2007 was just over \$23,500.

This study is a comprehensive review of what has worked well to this point, in addition to examining new ideas on how to further stimulate use of PDC's in the coming years. A preliminary package of recommendations was submitted to the Policy and Implementation Committee in the summer of 2007, and after further review a final set of policies and rules will be presented to the Commission for consideration over the course of the next year.

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Geographic Definitions

State-Designated Pinelands Area: area designated by The Pinelands Protection Act. This is the state-designated area under the jurisdiction of the Pinelands Commission.

Pinelands National Reserve: area designated by The National Parks and Recreation Act of 1978. This is the federally designated area that includes the state-designated area plus areas under CAFRA and DEP jurisdiction. This report focuses on the state-designated area only.

Pinelands: 47 municipalities in southern New Jersey that have at least 10% of their land within the state-designated Pinelands Area.

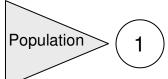
Non-Pinelands: the remaining 155 municipalities in southern New Jersey that have less than 10% of their land in the state-designated Pinelands Area (6 municipalities have between 0.1% and 9% in the Pinelands Area; the remaining 149 have no land in the Pinelands Area).

Southern New Jersey: the Pinelands municipalities plus the Non-Pinelands municipalities (47 + 155 = 202 municipalities total). Defined as the counties of Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Ocean, and Salem.

State of New Jersey: data for the state as a whole that includes southern (202 municipalities) and northern (364 municipalities) New Jersey (566 municipalities total).

Pinelands Municipal Area Inside the Pinelands Boundary: all census blocks or census block groups that have their geographic center within the state-designated Pinelands Area boundary. Provides the most accurate measure of Pinelands activity. Available in limited instances.

Pinelands Municipal Area Outside the Pinelands Boundary: all census blocks or census block groups that have their geographic center outside the state-designated Pinelands Area boundary, but within a municipality that has at least 1% of its land within the state-designated Pinelands boundary. Available in limited instances.



Population

US Census Bureau 1980, 1990, 2000



 Population Growth in Pinelands municipalities outpaced Non-Pinelands municipalities between 1980 and 2000.

Population 1980 - 2000

				Change	Change	Change
	1980	1990	2000	1980-1990	1990-2000	1980-2000
New Jersey	7,365,011	7,730,188	8,414,350	5.0%	8.9%	14.2%
South Jersey	1,854,074	2,083,938	2,263,516	12.4%	8.6%	22.1%
Non-Pinelands	1,430,609	1,534,417	1,647,532	7.3%	7.4%	15.2%
Pinelands	423,465	549,521	615,984	29.8%	12.1%	45.5%

<u>Description</u>: Population data is useful both as an indicator of demand for housing and for private and public goods and services, as well as for various per capita and per household calculations.

<u>Unit of Analysis</u>: Population data are compiled at the municipal level and aggregated to allow for inside/outside Pinelands, regional, and statewide analyses.

Summary of Previous Findings

The percentage increase in population was much higher in the Pinelands (30%) than outside (7%) from 1980 to 1990. Both areas surpassed the statewide increase in population of approximately 5% over the decade. A separate analysis of trends by county found that Atlantic County had the greatest differential between inside and outside growth rates from 1980-1990, which was most likely due to the start of casino gambling in Atlantic City and associated growth in nearby communities. The percentage increase in population was higher in the Pinelands than outside from 1990 to 2000 (although in absolute terms, population increased more outside the Pinelands over the same period); however, the disparity between inside and outside Pinelands annual growth rates decreased.

Population growth was higher in the Pinelands (12.1%) than all other regions of the state from 1990 to 2000. As figure P1 illustrates, population growth was highest in municipalities located along the edge of the Pinelands, especially those located in the northern and eastern regions. Stafford, Jackson, and Galloway grew the most in terms of percentages (see Table P1). However, a large portion of population growth in these towns occurred outside the Pinelands boundary (see next section on population by census block group).

An examination of group quarters population adds additional insight into population change within certain Pinelands municipalities. Persons living in group quarters (i.e. housing where unrelated persons live together) are classified as institutional (prisons and mental hospitals) and non-institutional (military bases, colleges and universities, nursing homes, and shelters). Several municipalities have been impacted by changes in group quarters population, which distorts the actual change in the number of residents. Practically all of Woodland's population decrease (826 persons out of 893) was due to a decrease in the institutional population. The population of Washington decreased while the number of persons in group quarters increased, masking the "actual" decrease in residents. Maurice River's increase can almost entirely be attributed to an increase in the institutional population, while Woodbine experienced a decrease in institutional population that masks a larger non-group quarters increase.

In New Hanover, the number of persons in non-institutions (military base) decreased by 5,035 people, while the number of people in institutions (prison) increased by 4,225 people. The number of persons not in group quarters increased by 1,008, but since the military population declined so steeply, the official population change was only 198. Wrightstown and Pemberton Township had large population decreases and have a significant military presence but experienced little change in group quarters population in spite of base reductions. Military personnel in these towns may have lived off the military base and were thus not considered to be in group quarters.

10 Pinelands Boundary **Population Change** Source: US Census Bureau -80.5% - 0% Author: NJ Pinelands Commission 0.1% - 10% Date: 2003 10.1% - 40% 40.1% - 107.8%

Figure P1 Municipal Population Change (1990-2000)

Table P1a Population by Pinelands Municipality

	Table P1a	Popu	lation by Pin	elands Mun	icipality	
Municipality	County	2000	1990	1980	Change 1990-00	Change 1980-90
Stafford Twp.	Ocean	22,532	13,325	10,385	69%	28%
Galloway Twp.	Atlantic	31,209	23,330	12,176	34%	92%
Jackson Twp.	Ocean	42,816	33,233	25,644	29%	30%
Hamilton Twp.	Atlantic	20,499	16,012	9,499	28%	69%
Egg Harbor Twp.	Atlantic	30,726	24,544	19,381	25%	27%
Barnegat Twp.	Ocean	15,270	12,235	8,702	25%	41%
Plumsted Twp.	Ocean	7,275	6,005	4,674	21%	28%
Evesham Twp.	Burlington	42,275	35,309	21,508	20%	64%
Little Egg Harbor Twp.	Ocean	15,945	13,333	8,483	20%	57%
Ocean Twp.	Ocean	6,450	5,416	3,731	19%	45%
Dennis Twp.	Cape May	6,492	5,574	3,989	16%	40%
Weymouth Twp.	Atlantic	2,257	1,957	1,260	15%	55%
Winslow Twp.	Camden	34,611	30,087	20,034	15%	50%
Lacey Twp.	Ocean	25,346	22,141	14,161	14%	56%
Estell Manor City	Atlantic	1,585	1,404	848	13%	66%
Upper Twp.	Cape May	12,115	10,681	6,713	13%	59%
Shamong Twp.	Burlington	6,462	5,765	4,537	12%	27%
Beachwood Boro	Ocean	10,375	9,324	7,687	11%	21%
Medford Twp.	Burlington	22,253	20,526	17,622	8%	16%
Monroe Twp.	Gloucester	28,967	26,703	21,639	8%	23%
Manchester Twp.	Ocean	38,928	35,976	27,987	8%	29%
Franklin Twp.	Gloucester	15,466	14,482	12,396	7%	17%
Berkeley Twp.	Ocean	39,991	37,319	23,151	7%	61%
Port Republic City	Atlantic	1,037	992	837	5%	19%
Maurice River Twp.	Cumberland	6,928	6,648	4,577	4%	45%
Hammonton town	Atlantic	12,604	12,208	12,298	3%	-1%
New Hanover Twp.	Burlington	9,744	9,546	14,258	2%	-33%
Southampton Twp.	Burlington	10,388	10,202	8,808	2%	16%
Woodbine Boro	Cape May	2,716	2,678	2,809	1%	-5%
Mullica Twp.	Atlantic	5,912	5,896	5,243	0%	12%
Chesilhurst Boro	Camden	1,520	1,526	1,590	0%	-4%
Egg Harbor City	Atlantic	4,545	4,583	4,618	-1%	-1%
Eagleswood Twp.	Ocean	1,441	1,476	1,009	-2%	46%
Buena Vista Twp.	Atlantic	7,436	7,655	6,959	-3%	10%
Tabernacle Twp.	Burlington	7,170	7,360	6,236	-3%	18%
Berlin Twp.	Camden	5,290	5,466	5,348	-3%	2%
Bass River Twp.	Burlington	1,510	1,580	1,344	-4%	18%
Waterford Twp.	Camden	10,494	10,940	8,126	-4%	35%
Medford Lakes Boro	Burlington	4,173	4,462	4,958	-6%	-10%
South Toms River Boro	Ocean	3,634	3,869	3,954	-6%	-2%
Pemberton Twp.	Burlington	28,691	31,342	29,720	-8%	5%
Folsom Boro	Atlantic	1,972	2,181	1,892	-10%	15%
Buena Boro	Atlantic	3,873	4,441	3,642	-13%	22%
Lakehurst Boro	Ocean	2,522	3,078	2,908	-18%	6%
Washington Twp.	Burlington	621	805	808	-23%	0%
Woodland Twp.	Burlington	1,170	2,063	2,285	-43%	-10%
Wrightstown Boro	Burlington	748	3,843	3,031	-81%	27%
"Outside" Municipalities*			-,3.0	-,00.	2.70	_,,•
Corbin City	Atlantic	468	412	254	14%	62%
Berlin Boro	Camden	6,149	5,672	5,786	8%	-2%
Springfield Twp.	Burlington	3,227	3,028	2,691	7%	13%
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Vineland City	Cumberland	56,271	54,780	53,753	3%	2%

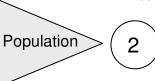
^{*}These five municipalities have land in the Pinelands but are counted as Non-Pinelands municipalities because less than ten percent of their land area is in the Pinelands. They are displayed for informational purposes in this and subsequent tables.

Table P1b 2000 Census Group Quarters Population

	Table P	D 200	Census	Group G	uarters P	opulation	<u> </u>	
Municipality	County	Population	Group	GQ %	Institution	Inat 9/	Non	Non Inst %
Municipality New Hanover	County Burlington	9,834	Quarters 6,124	62.3%	4,846	Inst % 49.3%	Institution 1,278	13.0%
Maurice River	Cumberland	6,928	3,360	48.5%	3,360	48.5%	0	0.0%
Washington		579	179		109	18.8%	70	12.1%
Woodbine	Burlington		568	30.9%				0.0%
Chesilhurst	Cape May	2,716	138	20.9%	568	20.9%	0 50	
	Camden	1,520		9.1%	88	5.8%		3.3%
Galloway	Atlantic	31,159	2,080	6.7%	0	0.0%	2,080	6.7%
Hamilton	Atlantic	20,499	1,041	5.1%	1,028	5.0%	13	0.1%
Winslow	Camden	34,659	1,112	3.2%	1,061	3.1%	51	0.1%
Dennis	Cape May	6,503	208	3.2%	155	2.4%	53	0.8%
Hammonton	Atlantic	12,604	348	2.8%	205	1.6%	143	1.1%
Estell Manor	Atlantic	1,592	33	2.1%	33	2.1%	0	0.0%
Waterford	Camden	10,485	207	2.0%	0	0.0%	207	2.0%
Manchester	Ocean	38,960	728	1.9%	546	1.4%	182	0.5%
Pemberton	Burlington	28,650	516	1.8%	378	1.3%	138	0.5%
Berkeley	Ocean	39,988	591	1.5%	223	0.6%	368	0.9%
Egg Harbor City	Atlantic	4,545	70	1.5%	35	0.8%	35	0.8%
Stafford	Ocean	22,517	293	1.3%	223	1.0%	70	0.3%
Buena Vista	Atlantic	7,436	94	1.3%	0	0.0%	94	1.3%
Medford	Burlington	22,253	255	1.1%	201	0.9%	54	0.2%
Wrightstown	Burlington	747	8	1.1%	0	0.0%	8	1.1%
Little Egg Harbor	Ocean	16,019	166	1.0%	166	1.0%	0	0.0%
Tabernacle	Burlington	7,170	72	1.0%	67	0.9%	5	0.1%
Jackson	Ocean	42,810	374	0.9%	360	0.8%	14	0.0%
Buena	Atlantic	3,873	33	0.9%	0	0.0%	33	0.9%
Barnegat	Ocean	15,285	127	0.8%	125	0.8%	2	0.0%
Ocean	Ocean	6,450	54	0.8%	0	0.0%	54	0.8%
Mullica	Atlantic	5,912	47	0.8%	0	0.0%	47	0.8%
Monroe	Gloucester	28,967	212	0.7%	155	0.5%	57	0.2%
Franklin	Gloucester	15,466	90	0.6%	0	0.0%	90	0.6%
Southampton	Burlington	10,333	61	0.6%	61	0.6%	0	0.0%
Port Republic	Atlantic	1,032	6	0.6%	0	0.0%	6	0.6%
Evesham	Burlington	42,428	185	0.4%	100	0.2%	85	0.2%
Berlin Township	Camden	5,290	19	0.4%	0	0.0%	19	0.4%
Folsom	Atlantic	1,972	7	0.4%	0	0.0%	7	0.4%
Egg Harbor Twp	Atlantic	30,619	49	0.2%	0	0.0%	49	0.2%
Lacey	Ocean	25,346	39	0.2%	26	0.1%	13	0.1%
Upper	Cape May	12,115	8	0.1%	0	0.0%	8	0.1%
Plumsted	Ocean	7,275	8	0.1%	0	0.0%	8	0.1%
Beachwood	Ocean	10,316	6	0.1%	0	0.0%	6	0.1%
Shamong	Burlington	6,462	2	0.0%	0	0.0%	2	0.0%
Medford Lakes	Burlington	4,173	0	0.0%	0	0.0%	0	0.0%
So. Toms River	Ocean	3,608	0	0.0%	0	0.0%	0	0.0%
Lakehurst	Ocean	2,522	0	0.0%	0	0.0%	0	0.0%
Weymouth	Atlantic		0	0.0%			0	•
		2,250			0	0.0%		0.0%
Bass River	Burlington	1,552	0	0.0%	0	0.0%	0	0.0%
Eagleswood	Ocean	1,441	0	0.0%	0	0.0%	0	0.0%
Woodland	Burlington	1,160	0	0.0%	0	0.0%	0	0.0%
"Outside" Munis	O marks and	E0 071	0.000	4.00/	1.001	1.00/	1.000	0.407
Vineland	Cumberland	56,271	2,393	4.3%	1,031	1.8%	1,362	2.4%
Berlin Borough	Camden	6,149	72	1.2%	18	0.3%	54	0.9%
Springfield	Burlington	3,227	7	0.2%	0	0.0%	7	0.2%
North Hanover	Burlington	7,325	0	0.0%	0	0.0%	0	0.0%
Corbin City	Atlantic	468	0	0.0%	0	0.0%	0	0.0%

Table P1c Group Quarters Components of Population Change 1990-2000

lable	FIC GI	oup Quai	ters comp	onents of r	opulation C	nange 1990-	2000
		0000	D 01		Non-	Non-Group	Difference
Municipality	County	2000	Pop Change		Institutional	Quarters	
Municipality	County		1990 – 2000	Change	Change	Change	010
New Hanover	Burlington	9,834	198	4,225	-5,035	1,008	810
Washington	Burlington	579	-184	86	70	-340	156
Woodbine	Cape May	2,716	38	-134	0	172	134
Pemberton Twp	Burlington	28,650	-2,651	6	103	-2,760	109
Lacey	Ocean	25,346	3,205	-121	13	3,313	108
Buena Vista	Atlantic	7,436	-219	0	85	-304	85
Winslow	Camden	34,659	4,524	-66	-14	4,604	80
Tabernacle	Burlington	7,170	-190	67	5	-262	72
Manchester	Ocean	38,960	2,952	180	-249	3,021	69
Shamong	Burlington	6,462	697	-70	2	765	68
Chesilhurst	Camden	1,520	-6	88	-22	-72	66
Medford	Burlington	22,253	1,727	-93	54	1,766	39
Waterford	Camden	10,485	-446	-152	186	-480	34
Franklin	Gloucester	15,466	984	0	-34	1,018	34
Buena	Atlantic	3,873	-568	0	16	-584	16
Mullica	Atlantic	5,912	16	-60	47	29	13
Monroe	Gloucester	28,967	2,264	-21	10	2,275	11
Estell Manor	Atlantic	1,592	181	-10	0	191	10
Folsom	Atlantic	1,972	-209	0	7	-216	7
Berlin	Camden	5,290	-176	0	6	-182	6
Weymouth	Atlantic	2,250	300	0	0	300	0
Bass River	Burlington	1,552	-70	0	0	-70	0
Medford Lakes	Burlington	4,173	-289	0	0	-289	0
Eagleswood	Ocean	1,441	-35	0	0	-35	0
Lakehurst	Ocean	2,522	-556	0	0	-556	0
South Toms River		3,608	-235	0	0	-235	0
Ocean	Ocean	6,450	1,034	0	3	1,031	-3
Barnegat	Ocean	15,285	3,035	2	2	3,031	-4
Egg Harbor City	Atlantic	4,545	-38	-20	15	-33	-5
Port Republic	Atlantic	1,032	45	0	6	39	-6
Beachwood	Ocean	10,316	1,051	0	6	1,045	-6
Dennis	Cape May	6,503	918	-45	53	910	-8
Upper	Cape May	12,115	1,434	0	8	1,426	-8
Plumsted		7,275	1,434	0	8	1,262	-8
	Ocean Atlantic	12,604	396	-103	113	386	-10
Hammonton							
Egg Harbor Twp	Atlantic	30,619	6,182	0 45	27 0	6,155	-27
Little Egg Harbor	Ocean	16,019	2,612		_	2,567	-45
Jackson	Ocean	42,810	9,583	63	-15	9,535	-48
Evesham	Burlington	42,428	6,966	-23	78	6,911	-55
Southampton	Burlington	10,333	186	61	-5	130	-56
Berkeley	Ocean	39,988	2,672	-296	361	2,607	-65
Wrightstown	Burlington	747	-3,095	0	-91	-3,004	-91
Galloway	Atlantic	31,159	7,879	-40	193	7,726	-153
Stafford	Ocean	22,517	9,207	118	70	9,019	-188
Maurice River	Cumberland	6,928	280	358	0	-78	-358
Hamilton	Atlantic	20,499	4,487	406	-37	4,118	-369
Woodland	Burlington	1,160	-893	-826	0	-67	-826
"Outside" Munis	1						
Springfield	Burlington	3,227	199	-40	-17	256	57
Corbin City	Atlantic	468	56	0	0	56	0
North Hanover	Burlington	7,325	-2,647	0	-25	-2,622	-25
Berlin Boro	Camden	6,149	477	18	54	405	-72
Vineland	Cumberland	56,271	1,491	-939	1,050	1,380	-111



Population – Census Block

Updated

US Census Bureau 1990, 2000

 Most of the population growth in Pinelands municipalities between 1990 and 2000 occurred outside of the Pinelands boundary.

Census Block Population

	1990	2000	Change
In Boundary	262,507	276,889	5.5%
Out Boundary	361,009	412,557	14.3%

Municipal Population Change Categories

	# Munis	% Total
Gained Inside and Gained Outside	16	30.8%
Gained Inside and Lost Outside	7	13.4%
Gained Inside, No Area Outside	4	7.7%
Lost Inside, Gained Outside	9	17.3%
Lost Inside, Lost Outside	8	15.4%
Lost Inside, No Area Outside	8	15.4%

<u>Description</u>: Population data at the census block level is useful in overcoming the limitations of municipal level population data by identifying the actual number of residents who live within the state-designated Pinelands area.

<u>Unit of Analysis</u>: Sub-Municipal data is aggregated by counting the population of census blocks inside and outside the Pinelands boundary using GIS. The actual population of the state-designated Pinelands area is calculated, along with areas of Pinelands municipalities that are outside the boundary. Census blocks from 1990 were normalized to make them comparable to 2000 census blocks.

Summary of Previous Findings

While population in the Pinelands region has grown to 615,984, the population actually inside the Pinelands boundary was less than half that number in 2000. Pinelands population data analyzed at the census block level revealed that 276,889 people lived in the Pinelands in 2000, a 5.5% increase over the 1990 population of 262,507. The number of persons living in Pinelands municipalities outside of the Pinelands boundary increased from 361,009 in 1990 to 412,557 in 2000, an increase of 14.3%.

The top three municipalities with the largest populations inside the Pinelands boundary are Pemberton Township, Hamilton Township, and Medford Township (Table P2a). Of the fifty-two municipalities with land in the Pinelands, the top 10 municipalities in population account for 58% of the Pinelands total population, while the top 20 municipalities account for 85% of the population. The municipalities in the top bracket contain at least one of the Pinelands development areas: Regional Growth Areas, Pinelands Towns, and Pinelands Villages. Conversely, the 10 municipalities with the least population in the Pinelands do not even comprise ½% of the total Pinelands population. Five of these 10 are defined as "Non-Pinelands" municipalities for the purposes of this study, as less than 10% of their land is within the Pinelands. Some municipalities have more than 10% of their land in the Pinelands, but have extremely few people. For example, Eagleswood has 20% of its land in the Pinelands, but has no residents in the Pinelands, while Beachwood has 28% of its land in the Pinelands and has only four residents. In most instances, these areas fall within Preservation or Forest management areas.

The largest absolute changes in population inside the Pinelands boundary between 1990 and 2000 occurred in municipalities that have Regional Growth Areas (Table P2b). Stafford, Egg Harbor Township, and Hamilton were the top three municipalities in terms of absolute growth, while Berkeley was the fastest growing in terms of percent change. Wrightstown, Pemberton Township, and North Hanover had the largest absolute decreases in population, due to military base reductions.

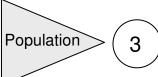
The 52 municipalities with some or all of their land inside the Pinelands were classified according to where their population gain occurred. Municipalities that gained population both inside and outside the boundary accounted for 30.8% of the total municipalities, the largest category by far. Municipalities completely located inside the Pinelands that experienced population gain made up the smallest percentage of the total, with 7.7%. Percentages in the other categories were relatively equal, with between seven and nine towns in each category.

Table P2a 2000 Population Inside and Outside the Pinelands Boundary by Pinelands Municipality

Municipality	% Land in Pinelands	Total Population Inside 2000	% Population Inside	% Population Outside	Total Population Outside 2000
Pemberton Twp	90%	28,127	98%	2%	564
Hamilton	97%	19,136	93%	7%	1,363
Medford Twp	75%	18,239	82%	18%	4,014
Egg Harbor Twp	38%	16,209	53%	47%	14,517
Winslow	81%	15,599	45%	55%	19,012
Monroe	69%	14,406	50%	50%	14,561
Stafford	39%	13,390	59%	41%	9,142
Hammonton	100%	12,604	100%	0%	•, · · -
Manchester	72%	12,185	31%	69%	26,743
Evesham	55%	11,553	27%	73%	30,722
Galloway	38%	10.658	34%	66%	20,551
Waterford	100%	10,494	100%	0%	20,001
New Hanover	91%	9,109	93%	7%	635
Southampton	73%	7,193	69%	31%	3,195
Tabernacle	100%	7,170	100%	0%	0,100
Shamong	100%	6,462	100%	0%	
Buena Vista	90%	6,248	84%	16%	1,188
Mullica	100%	5,912	100%	0%	1,100
Maurice River					0.100
	69%	4,819	70%	30%	2,109
Egg Harbor City	100%	4,545	100%	0%	
Medford Lakes	100%	4,173	100%	0%	00.740
Jackson	47%	4,106	10%	90%	38,710
Barnegat	56%	3,226	21%	79%	12,044
North Hanover	4%	3,090	42%	58%	4,257
Woodbine	95%	2,716	100%	0%	
Franklin	36%	2,664	17%	83%	12,802
South Toms River	48%	2,495	69%	31%	1,139
Berkeley	30%	2,467	6%	94%	37,524
Lakehurst	87%	2,393	95%	5%	129
Folsom	100%	1,972	100%	0%	
Weymouth	82%	1,668	74%	26%	600
Dennis	38%	1,623	25%	75%	4,869
Chesilhurst	100%	1,520	100%	0%	
Estell Manor	72%	1,502	95%	5%	72
Bass River	87%	1,234	82%	18%	276
Upper	33%	1,175	10%	90%	10,940
Woodland	100%	1,170	100%	0%	
Buena	47%	865	22%	78%	3,008
Washington	100%	621	100%	0%	
Lacey	67%	521	2%	98%	24,825
Plumsted	53%	412	6%	94%	6,863
Berlin Twp	16%	403	8%	92%	4,887
Vineland '	7%	186	0%	100%	56,085
Ocean	41%	145	2%	98%	6,305
Berlin Boro	10%	141	2%	98%	6,008
Wrightstown	73%	123	16%	84%	625
Little Egg Harbor	23%	107	1%	99%	15,838
Port Republic	35%	102	10%	90%	935
Corbin City	1%	7	1%	99%	461
Beachwood	28%	4	0%	100%	10,371
Eagleswood	20%	0	0%	100%	1,441
Springfield	20%	0	0%	100%	3,227
opringn e id	۷%	U	0%	100%	3,227

Table P2b Population Change Inside and Outside the Pinelands Boundary by Pinelands Municipality (1990 – 2000)

Municipality	% Land in	Total	Change in	Percent	Total	Change in	Percent
	Pinelands	Population	Pop In Pines	Change	Population	Pop Out	Change
		Inside 1990	1990-2000	1990-2000	Outside 1990	Pines 1990- 2000	1990-2000
Stafford	39%	5739	7651	133%	7568	1574	21%
Egg Harbor Twp	38%	11687	4522	39%	12905	1612	12%
Hamilton	97%	14988	4148	28%	1024	339	33%
Galloway	38%	8497	2161	25%	14824	5727	39%
Berkeley	30%	865	1602	185%	36424	1100	3%
Manchester	72%	10589	1596	15%	25387	1356	5%
Evesham	55%	10121	1432	14%	25188	5534	22%
Shamong	100%	5765	697	12%			
Barnegat	56%	2701	525	19%	9552	2492	26%
Maurice River	69%	4392	427	10%	2256	-147	-7%
Southampton	73%	6792	401	6%	3410	-215	-6%
Hammonton	100%	12208	396	3%			
Weymouth	82%	1340	328	24%	630	-30	-5%
Estell Manor	72%	1268	234	18%	123	-51	-41%
Winslow	81%	15426	173	1%	14661	4351	30%
New Hanover	91%	8962	147	2%	584	51	9%
Franklin	36%	2531	133	5%	11951	851	7%
Dennis	38%	1536	87	6%	4038	831	21%
Berlin Twp	16%	344	59	17%	5122	-235	-5%
Ocean	41%	91	54	59%	5325	980	18%
Upper	33%	1133	42	4%	9548	1392	15%
Woodbine	95%	2678	38	1%			
Medford Twp	75%	18206	33	0%	2320	1694	73%
Vineland	7%	166	20	12%	54614	1471	3%
Mullica	100%	5896	16	0%			
Berlin Boro	10%	133	8	6%	5539	469	8%
Corbin City	1%	3	4	133%	409	52	13%
Eagleswood	20%	0	0	0%	1476	-35	-2%
Chesilhurst	100%	1526	-6	0%			
Jackson	47%	4124	-18	0%	29108	9602	33%
Port Republic	35%	124	-22	-18%	877	58	7%
Plumsted	53%	436	-24	-6%	5569	1294	23%
Bass River	87%	1269	-35	-3%	311	-35	-11%
Egg Harbor City	100%	4583	-38	-1%			
Lacey	67%	563	-42	-7%	21578	3247	15%
Beachwood	28%	65	-61	-94%	9259	1112	12%
Little Egg Harbor	23%	172	-65	-38%	13158	2680	20%
Springfield	2%	123	-123	-100%	2911	316	11%
Washington	100%	805	-184	-23%			
Tabernacle	100%	7360	-190	-3%			
South Toms River	48%	2689	-194	-7%	1210	-71	-6%
Folsom	100%	2181	-209	-10%			
Buena	47%	1077	-212	-20%	3364	-356	-11%
Buena Vista	90%	6512	-264	-4%	1143	45	4%
Medford Lakes	100%	4462	-289	-6%			
Waterford	100%	10940	-446	-4%			
Lakehurst	87%	2939	-546	-19%	139	-10	-7%
Monroe	69%	15122	-716	-5%	11581	2980	26%
Woodland	100%	2063	-893	-43%			
North Hanover	4%	5493	-2403	-44%	4560	-303	-7%
Pemberton Twp	90%	30740	-2613	-9%	602	-38	
Wrightstown	73%	3082	-2959	-96%	761	-136	-18%



Age Demographics



US Census Bureau, 1980, 1990, 2000

The average age of the population in Southern New Jersey is increasing.

Population Under 18 (Municipal Level)

	< 18 Years						
	1980 1990 2000						
Pinelands	29.1%	24.7%	24.4%				
Non-Pinelands	28.1%	24.8%	25.4%				
New Jersey	27.0%	23.3%	24.8%				

Population 65 and over (Municipal Level)

		> 65 Years							
	1980 1990 2000								
Pinelands	13.5%	16.4%	16.8%						
Non-Pinelands	12.5%	14.2%	14.6%						
New Jersey	11.7%	13.4%	13.2%						

<u>Description</u>: The age distribution of the population within each municipality provides some determination of the demand for services and the ability of the population to withstand changes in tax rates.

<u>Unit of Analysis</u>: Demographic data are compiled at the municipal level and aggregated to allow for inside/outside Pinelands, regional, and statewide analyses.

Summary of Previous Findings

Examination of demographic data indicated that the population throughout Southern New Jersey is aging. The proportion of the population under 18 declined 3.3 percentage points outside of the Pinelands between 1980 and 1990, and declined 4.4 percentage points inside of the Pinelands over the same period. During the same decade, the proportion of the population over 65 increased 1.7 percentage points outside of the Pinelands and rose 2.9 percentage points inside of the Pinelands. Statewide trends were similar to those found in Southern New Jersey. Table P3 shows the prevalence of different age classes in Pinelands and Non-Pinelands municipalities. An examination of the geographic distribution of the 20 municipalities in the eight southern counties with the lowest and highest median ages in 1980 and 1990 found that both age extremes (youngest and oldest) are found at the edges of the region, predominantly outside of the Pinelands. The concentration of older populations along the southern and eastern borders reflects the popularity of resort and beach communities among retirees, while the concentration of younger populations in the north and west most likely reflects the presence of large military installations, a college campus, and more urban areas in Camden County.

Average age in the Pinelands continued to increase gradually during the 1990s, while the proportion of the population under 18 and over 65 changed very little from 1990-2000. However, Table P3a provides evidence of an aging working population (18-65 years old) both inside and outside of the Pinelands. The majority of Pinelands municipalities fell within median age 30-34 in 1990; however, by 2000, that majority moved to median age 35-39. Similarly the largest number of Non-Pinelands municipalities moved up to the 35-39 median age group over the same period.

Update

Census Block Groups are small enough to distinguish population inside and outside the Pinelands boundary, thus overcoming the limitations of municipal level data. Data at the Census Block Group level was used to calculate age groups inside and outside the Pinelands boundary for the year 2000. Based on the block group data, the actual population inside the boundary was approximately 283,600.8 Of these residents, 24.7% are under 18 years of age and 13.6% are over 64 years of age. Compared to the municipal Pinelands aggregate, the number of younger residents is approximately the same but the number of senior residents inside the Pinelands boundary is 3% lower. The population of the portion of Pinelands municipalities that lie outside the boundary was 405,000 residents. Of this number, 24.6% are under 18 and 18.4% are over 64. So, the number of juveniles in Pinelands municipalities is evenly spread inside and outside the boundary, but there are a greater number of seniors in Pinelands municipalities who live outside the boundary compared to inside the boundary. The Pinelands portion of Berkeley, Manchester, Southampton, and Barnegat stand out as areas that have a large percentage of senior residents (over 40%). These areas are home to several retirement communities (Table P3c).

8 This figure differs from the block level count, which was approximately 277,000. Block level data is more precise than Block Group level data, but less information is available at the block level.

Table P3a Median Age, 1980, 1990 and 2000 (Municipal Level)

				1000					
	1	1		1980					
Age Class	18 - 22	23 - 29	30 - 34	35 - 39	40 - 49	50 - 59	60 - 64	65 - 69	Total ⁹
# of Non-Pinelands Municipalities	0	32	78	20	17	7	0	0	154
% Non-Pinelands	0.0%	20.8%	50.6%	13.0%	11.0%	4.5%	0.0%	0.0%	100.0%
# of Pinelands Municipalities	1	26	13	3	2	1	0	1	47
% Pinelands	2.1%	55.3%	27.7%	6.4%	4.3%	2.1%	0.0%	2.1%	100.0%
				1990					
Age Class	18 - 22	23 - 29	30 - 34	35 - 39	40 - 49	50 - 59	60 - 64	65 - 69	Total
# of Non-Pinelands Municipalities	0	10	69	51	15	7	3	0	155
% Non-Pinelands	0.0%	6.5%	44.5%	32.9%	9.7%	4.5%	1.9%	0.0%	100.0%
# of Pinelands Municipalities	0	6	27	11	1	0	0	2	47
% Pinelands	0.0%	12.8%	57.4%	23.4%	2.1%	0.0%	0.0%	4.3%	100.0%
				2000					
Age Class	18 - 22	23 - 29	30 - 34	35 - 39	40 - 49	50 - 59	60 - 64	65 - 69	Total
# of Non-Pinelands Municipalities	0	4	19	78	40	13	1	0	155
% Non-Pinelands	0.0%	2.6%	12.3%	50.3%	25.8%	8.4%	0.6%	0.0%	100.0%
# of Pinelands Municipalities	0	0	9	29	7	0	0	2	47
% Pinelands	0.0%	0.0%	19.1%	61.7%	14.9%	0.0%	0.0%	4.3%	100.0%

⁹ Municipalities in 1980 totaled 201 due to lack of data for Tavistock Boro (population=9).

Table P3b Population Under 18 Years of Age Inside and Outside the Pinelands Boundary (Census Block Group Level)

ı	Boundary (Census Block Group Level)										
County	Municipality	Population Inside 2000	Population Under 18 Inside	% Under 18 Inside	% Under 18 Outside	Population Under 18 Outside	Population Outside 2000				
Ocean	South Toms River	2,877	909	31.6%	34.1%	258	757				
Cape May	Upper	2,816	864	30.7%	28.0%	2,603	9,299				
Ocean	Lakehurst	2,522	771	30.6%	0.0%	0	0				
Burlington	Shamong	6,462	1,898	29.4%	0.0%	0	0				
Burlington	Washington	621	182	29.3%	0.0%	0	0				
Atlantic	Egg Harbor Twp	16,209	4,663	28.8%	27.5%	3,800	13,841				
Atlantic	Egg Harbor City	4,545	1,284	28.3%	0.0%	0	0				
Ocean	Little Egg Harbor	989	280	28.3%	23.9%	3,574	14,956				
Ocean	Beachwood	1,331	375	28.2%	28.6%	2,585	9,044				
Burlington	Pemberton Twp	27,243	7,658	28.1%	18.2%	263	1,448				
Burlington	Tabernacle	7,170	2,004	27.9%	0.0%	0	0				
Burlington	Medford Twp	18,919	5,245	27.7%	21.9%	729	3,334				
Gloucester	Franklin	2,664	735	27.6%	27.7%	3,546	12,802				
Atlantic	Buena	865	237	27.4%	25.3%	760	3,008				
Ocean	Jackson*	5,627	1,523	27.1%	30.1%	11,178					
Atlantic	Hamilton	19,287	5,199	27.0%	29.2%	354					
Ocean	Stafford	13,390	3,612	27.0%	19.0%	1,740	9,142				
Atlantic	Mullica	5,912	1,594	27.0%	0.0%	0					
Burlington	Bass River	1,510	405	26.8%	0.0%	0					
Atlantic	Buena Vista	6,248	1,659	26.6%	15.1%	179	1,188				
Atlantic	Estell Manor / Weymouth/ Corbin City*	3,177	841	26.5%	30.0%	340	1,133				
Gloucester	Monroe	14,813	3,905	26.4%	24.9%	3,522	14,154				
Cape May	Dennis	2,135	562	26.3%	29.2%	1,274	4,357				
Ocean	Ocean	825	216	26.2%	25.4%	1,427	5,625				
Burlington	Evesham	12,827	3,338	26.0%	27.7%	8,147	29,448				
Burlington	Woodland	1,170	302	25.8%	0.0%	0	0				
Camden	Waterford	10,494	2,701	25.7%	0.0%	0	0				
Burlington	Medford Lakes	4,173	1,067	25.6%	0.0%	0	0				
Burlington	Wrightstown	39	10	25.6%	29.9%	212	709				
Ocean	Lacey	521	130	25.0%	25.6%	6,353	24,825				
Atlantic	Folsom	1,972	491	24.9%	0.0%	0	0				
Ocean	Jackson / Manchester / Plumsted*	446	108	24.2%	0.0%	0	0				
Cape May	Woodbine	2,716	723	23.6%	0.0%	0	0				
Camden	Winslow	15,710	3,687	23.5%	33.2%	6,278	18,901				
Camden	Chesilhurst	1,520	348	22.9%	0.0%	0	0				
Atlantic	Hammonton	12,604	2,874	22.8%	0.0%	0	0				
Atlantic	Galloway*	10,658	2,418	22.7%	28.9%	4,470	15,465				
Ocean	Barnegat	3,226	467	14.5%	30.4%	3,666					
Burlington	Southampton	6,445	907	14.1%	24.0%	947					
Burlington	New Hanover +	9,109	1,224	13.4%	29.8%	189					
Cumberland	Maurice River +	5,152	424	8.2%	26.4%	468					
Ocean	Manchester*	10,995	871	7.9%	11.7%	3,206					
Ocean	Berkeley	2,391	7	0.3%	12.1%	4,521	37,434				
Atlantic	Galloway / Port Republic*	0	0	0.0%	23.2%	1,423					
Camden	Berlin Twp	0	0	0.0%	25.8%	1,364					
Ocean	Eagleswood	0	0	0.0%	24.7%	356					
Ocean	Plumsted*	0	0	0.0%	28.5%	2,071	7,275				
"Outside" Mui											
Burlington	North Hanover +	3,090	1,383	44.8%	25.5%	1,085					
Cumberland	Vineland	186	58	31.2%	25.7%	14,405					
Burlington	Springfield	0	0	0.0%	25.8%	833					
Camden	Berlin Boro	0	0	0.0%	24.6%	1,513	6,149				

^{*} Some municipalities cannot be isolated because census block groups cut across municipal boundaries. Block groups that are shared by more than one municipality are listed separately.

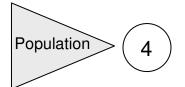
⁺ Influenced by group quarters population.

Population Over 64 Years of Age Inside and Outside the Pinelands Table P3c **Boundary (Census Block Group Level)**

December Propulation Pro		Boundary (Census Block Group Level)									
Decemple	County	Municipality						Population Outside 2000			
Burlington Southampton 6.445 2.830 43.9% 11.8% 4.465 3.94	Ocean	Berkeley	2,391	2,076	86.8%	50.0%	18,701	37,434			
Decan Barnegat 3,226 1,316 40,8% 11,8% 1,424 12,04	Ocean	Manchester*	10,995	6,816	62.0%	52.4%	14,394	27,493			
Burlington Washington 621 151 24.3% 0.0% 0	Burlington	Southampton	6,445	2,830	43.9%	11.8%	465	3,943			
Atlantic Hammonton 12,604 2,265 18,0% 0,0% 0 0 0 0 0 0 0 0 0	Ocean	Barnegat	3,226	1,315	40.8%	11.8%	1,424	12,044			
Decan	Burlington		621	151	24.3%	0.0%	0	0			
Surlington Wrightstown 39 6 15.4% 8.2% 58 70	Atlantic	Hammonton	12,604	2,265	18.0%	0.0%	0	0			
Altartic Camben / Corbin City*	Ocean	Stafford	13,390	2,281	17.0%	21.5%	1,963	9,142			
Atlantic Weymouth/ Corbin City* Camden Chesilhurst 1,520 229 15,1% 0,0% 0 Coean Jackson* 5,627 811 14,4% 8,6% 3,198 37,188 Atlantic Egg Harbor City 4,545 633 13,9% 0,0% 0 Atlantic Buena 865 111 12,8% 15,7% 502 3,00 Coean Coean 825 98 11,9% 14,0% 790 5,62 Camden Winslow 15,710 1,853 11,8% 17,7% 1,068 18,90 Atlantic Buena 865 111 12,8% 15,7% 1,068 18,90 Atlantic Buena 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	Burlington	Wrightstown	39	6	15.4%	8.2%	58	709			
Camden Chesilhurst 1,520 229 15.1% 0.0% 0 0 0 0 0 0 0 0 0	Atlantic	Weymouth/	3,177	479	15.1%	9.7%	110	1,133			
Atlantic Egg Harbor City 4,545 633 13,9% 0.0% 0 Atlantic Buena 865 111 12,8% 16,7% 502 3,00 Burlington Medford Lakes 4,173 516 12,4% 0.0% 0 Coean Ocean 825 98 11,9% 14,0% 790 5,62 Atlantic Buena Wisla 6,248 692 11,1% 37,5% 446 1,18 Gloucester Monroe 14,813 1,595 10,8% 15,1% 406 1,18 Burlington Mullica 5,912 630 10,7% 0.0% 0 Burlington Bass River 1,510 161 10,7% 0.0% 0 Lurlington Bass River 1,510 161 10,7% 0.0% 0 Atlantic Galloway 10,658 1,078 10,1% 6.9% 1,073 15,46 Atlantic Folsom 1,972 193 9,8% 0.0% 0 Atlantic Folsom 1,972 193 9,8% 0.0% 0 Atlantic Folsom 1,972 193 9,8% 0.0% 0 Lurlington Pass River 1,311 125 9,4% 8,5% 771 9,04 Atlantic Folsom 1,972 193 9,8% 0.0% 0 Atlantic Folsom 1,972 193 9,8% 0.0% 0 Lurlington Pemberton Twp 27,243 2,501 9,2% 20,2% 292 1,44 Atlantic Egg Harbor Twp 16,209 1,477 9,1% 8,7% 1,984 Gloucester Franklin 2,664 238 8,9% 9,7% 1,242 12,80 Doean Lacey 521 45 8,6% 15,3% 3,809 24,82 Burlington Medford Twp 18,919 1,658 8,8% 21,9% 1,973 3,30 Doean Lacey 521 45 8,6% 15,3% 3,809 24,82 Burlington Woodland 1,170 90 7,7% 0.0% 0 Doean Lacey 521 45 8,6% 15,3% 3,809 24,82 Burlington Woodland 1,170 90 7,7% 0.0% 0 Doean Lacey 521 45 8,6% 15,3% 3,809 24,82 Burlington Tabernacle 7,170 502 7,0% 0.0% 0 Doean Surlington Row Hamilton 19,287 1,599 5,7% 13,6% 12,69 9,29 Burlington Share River 2,877 250 8,7% 10,3% 78 75 Doean Lacey 521 45 8,6% 15,3% 3,809 24,82 Burlington Share River 4,170 90 7,7% 0.0% 0 Doean Surlington Tabernacle 7,170 502 7,0% 0.0% 0 Doean Surlington Tabernacle 7,170 502 7,0% 0.0% 0 Doean Surlington Tabernacle 7,170 502 7,0% 0.0% 0 Doean Surlington Row Hanover + 9,109 75 0.0% 3,018 29,44 Atlantic Galloway Port Port 1,500 7,000 0.0% 12,5% 663 5,29 Burlington Machaeler / 9,109 7,5 0.0% 12,5% 663 5,29 Burlington Tabernacle 7,170 0.0% 0.0% 0.0% 12,5% 663 5,29 Burlington Tabernacle 7,170 0.0% 0.0% 12,5% 663 5,29 Burlington Tabernacle 7,170 0.0% 0.0% 12,5% 663 5,29 Burlington North Hanover + 9,109 7,5 0.0% 10,5% 448 4,25	Camden	Chesilhurst	1,520	229	15.1%	0.0%		0			
Atlantic Buena 865 111 12.8% 16.7% 502 3.00 Burington Medford Lakes 4,173 516 12.4% 0.0% 0 Coean Ocean 825 98 11.9% 14.0% 790 5.62 Camden Winslow 15,710 1.853 11.8% 5.7% 1.086 18.90 Atlantic Buena Vista 6,248 692 11.1% 37.5% 446 1.18 Gloucester Monroe 14.813 1.595 10.8% 15.1% 2.142 14.15 Atlantic Mullica 5.912 630 10.7% 0.0% 0 Cape May Woodbine 2,716 283 10.4% 0.0% 0 Cape May Woodbine 2,716 283 10.4% 0.0% 0 Cape May Woodbine 2,716 283 10.4% 0.0% 0 Cape May Hoodbine 1,972 193 9.8% 0.0% 0 Cape May Dennis 2,135 203 9.5% 13.7% 595 4.35 Coean Little Egg Harbor 989 98 9.99 9.9% 18.2% 2,723 14.95 Atlantic Folsom 1,972 193 9.8% 0.0% 0 Cape May Dennis 2,135 203 9.5% 13.7% 595 4.35 Coean Beachwood 1,331 125 9.4% 8.5% 771 9.04 Atlantic Egg Harbor Twp 27,243 2,501 9.2% 20.2% 292 1,44 Atlantic Egg Harbor Twp 16,209 1.477 9.1% 8.7% 1.198 13.84 Gloucester Franklin 2,664 238 8.8% 21.9% 729 3,33 Coean South Toms River 2,877 250 8.7% 10.3% 78 75 Coean Lacey 52.87 2.87 2.87 2.87 2.87 2.87 2.87 2.87	Ocean	Jackson*	5,627	811	14.4%	8.6%	3,198	37,183			
Burlington Medford Lakes 4,173 516 12,4% 0.0% 0	Atlantic	Egg Harbor City	4,545	633	13.9%	0.0%	0	0			
Decan Cecan Re5 98 11.9% 14.0% 790 5.52	Atlantic	Buena	865	111	12.8%	16.7%	502	3,008			
Decan Cecan Re5 98 11.9% 14.0% 790 5.52	Burlington	Medford Lakes	4,173	516				0			
Camden Winslow 15,710 1,853 11,8% 5.7% 1,086 18,90 14,141ntic Buena Vista 6,248 692 11,11% 37.5% 446 1,18 1,18 1,15 1,08 1,15 1,08 1,15 1,08 1,15 1,08 1,15 1,08 1,15 1,08 1,15 1,08 1,15 1,08 1,15 1,08 1,15 1,08 1,15 1,08 1,15 1,08 1,15 1,08 1,07 1,09 0 1,07 1,00 0 1,07 1,09 1,09 1,07 1,09 1,09 1,07 1,09 1	Ocean						790	5,625			
Atlantic Buena Vista 6,248 692 11.1% 37.5% 446 1.18 Gloucester Monroe 14,813 1,595 10.8% 15.1% 2,142 14,15 Atlantic Mullica 5,912 630 10.7% 0.0% 0 1.5 Monroe 1.5 Mon	Camden	Winslow		1,853				18,901			
Allantic Monroe 14,813 1,595 10,8% 15.1% 2,142 14,15	Atlantic	Buena Vista			11.1%			1,188			
Atlantic Mullica 5,912 630 10.7% 0.0% 0 Burlington Bass River 1,510 161 10.7% 0.0% 0 Cape May Woodbine 2,716 283 10.4% 0.0% 0 Atlantic Galloway* 10,658 1,078 10.1% 6.9% 1.073 15.46 Coean Little Egg Harbor 989 98 9.9% 18.2% 2,723 14,95 Atlantic Folsom 1,972 193 9.8% 0.0% 0 Cape May Dennis 2,135 203 9.5% 13.7% 595 4,35 Coean Beachwood 1,331 125 9.4% 8.5% 771 9.04 Burlington Pemberton Twp 27,243 2,501 9.2% 20.2% 292 1,44 Atlantic Egg Harbor Twp 16,209 1,477 9.1% 8.7% 1,198 13.84 Gloucester Franklin 2,664 238 8.9% 9.7% 1,242 12,80 Burlington Medford Twp 18,919 1,658 8.8% 21.9% 729 3,33 Coean South Toms River 2,877 250 8.7% 10.3% 78 75 Coean Lacey 521 45 8.6% 15.3% 3,809 24,82 Atlantic Hamilton 19,287 1,599 8.3% 6.9% 84 1,21 Camden Waterford 10,494 854 8.1% 0.0% 0 Coean Lakehurst 2,522 201 8.0% 0.0%											
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Cape May Woodbine 2,716 283 10.4% 0.0% 0 Atlantic Galloway* 10,658 1,078 10.1% 6.9% 1,073 15,46 Ocean Little Egg Harbor 989 98 9.9% 18.2% 2,723 14,95 Atlantic Folsom 1,972 193 9.8% 0.0% 0 Cape May Dennis 2,135 203 9.5% 13.7% 595 4,35 Ocean Beachwood 1,331 125 9.4% 8.5% 771 9.0% Burlington Pemberton Twp 27,243 2,501 9.2% 20.2% 292 1,44 Atlantic Egg Harbor Twp 16,209 1,477 9.1% 8.7% 1,198 13,84 Burlington Medford Twp 18,919 1,658 8.8% 21.9% 729 3,33 Ocean South Toms River 2,877 250 8.7% 10.3% 78 75 Ocean								0			
Atlantic Galloway* 10,658 1,078 10.1% 6.9% 1,073 15,46 Docean Little Egg Harbor 988 98 98 9.9% 18.2% 2,723 14,95 Atlantic Folsom 1,972 193 9.8% 0.0% 0 Cape May Dennis 2,135 203 9.5% 13.7% 595 4,35 Docean Beachwood 1,331 125 9.4% 8.5% 771 9,04 Burlington Pemberton Twp 27,243 2,501 9.2% 20.2% 292 1,44 Atlantic Egg Harbor Twp 16,209 1,477 9.1% 8.7% 1,198 13,84 Gloucester Franklin 2,664 238 8.9% 9.7% 1,242 12,80 Burlington Medford Twp 18,919 1,655 8.8% 21.9% 729 3,33 Docean South Toms River 2,877 250 8.7% 10.3% 78 75 Docean Lacey 521 45 8.6% 15.3% 3,809 24,82 Atlantic Hamilton 19,287 1,599 8.3% 6,9% 84 1,21 Camden Waterford 10,494 854 8.1% 0.0% 0 Docean Lakehurst 2,522 201 8.0% 0.0% 0 Eape May Upper 2,816 203 7.2% 13.6% 1,269 9,29 Burlington Woodland 1,170 90 7.7% 0.0% 0 Burlington Shamong 6,462 386 6.0% 0.0% 0 Burlington Shamong 6,462 386 6.0% 0.0% 0 Burlington Shamong 6,462 386 6.0% 0.0% 0 Burlington Evesham 12,827 732 5.7% 10.2% 3,018 29,44 Atlantic Galloway / Port Republic* 0 0 0 0.0% 13.1% 803 6,12 Camden Berlin Twp 0 0 0 0.0% 12.5% 663 5,29 Docean Eagleswood 0 0 0 0.0% 12.5% 663 5,29 Docean Eagleswood 0 0 0 0.0% 14.4% 207 1,44 Docean Eagleswood 0 0 0 0.0% 14.4% 207 1,44 Docean Eagleswood 0 0 0 0.0% 14.4% 207 1,44 Docean Eagleswood 0 0 0 0.0% 14.4% 207 1,44 Docean Englington North Hanover + 3,090 4 0 0.0% 10.5% 448 4,25 Burlington North Hanover + 3,090 4 0.0% 10.0% 10.0% 346 3,22								0			
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Cumberland Maurice River + 5,152 214 4.2% 12.9% 229 1,770 Burlington New Hanover + 9,109 75 0.8% 7.9% 50 63 Jackson / Jackson / 0 0.0% 0.0% 0.0% 0 Ocean Manchester / Plumsted* 0 0.0% 13.1% 803 6,12 Atlantic Galloway / Port Republic* 0 0.0% 13.1% 803 6,12 Camden Berlin Twp 0 0 0.0% 12.5% 663 5,29 Ocean Eagleswood 0 0 0.0% 14.4% 207 1,44 Ocean Plumsted* 0 0 0.0% 8.5% 621 7,27 "Outside" Municipalities 0 0 0.0% 14.2% 7,957 56,08 Burlington North Hanover + 3,090 4 0.1% 10.5% 448 4,25 Burlington Springfield						10.0%					
Burlington New Hanover + 9,109 75 0.8% 7.9% 50 63 Jackson /							220				
Jackson / Docean Manchester / Plumsted*											
Republic* 0 0.0% 13.1% 803 6,12	Ocean	Jackson / Manchester /						0			
Ocean Eagleswood 0 0 0.0% 14.4% 207 1,44 Ocean Plumsted* 0 0 0.0% 8.5% 621 7,279 "Outside" Municipalities 0 0 0.0% 14.2% 7,957 56,08 Burlington North Hanover + 3,090 4 0.1% 10.5% 448 4,25 Burlington Springfield 0 0 0.0% 10.7% 346 3,22°	Atlantic	Republic*	0	0				6,123			
Ocean Plumsted* 0 0 0.0% 8.5% 621 7,279 "Outside" Municipalities "Outside" Municipalities 0 10.2% 14.2% 7,957 56,08 Burlington North Hanover + 3,090 4 0.1% 10.5% 448 4,25 Burlington Springfield 0 0 0.0% 10.7% 346 3,22°	Camden							5,290			
"Outside" Municipalities 10.2% 14.2% 7,957 56,08 Burlington North Hanover + 3,090 4 0.1% 10.5% 448 4,25 Burlington Springfield 0 0 0.0% 10.7% 346 3,22	Ocean					14.4%		1,441			
Cumberland Vineland 186 19 10.2% 14.2% 7,957 56,08 Burlington North Hanover + 3,090 4 0.1% 10.5% 448 4,25 Burlington Springfield 0 0 0.0% 10.7% 346 3,22°	Ocean	Plumsted*	0	0	0.0%	8.5%	621	7,275			
Burlington North Hanover + 3,090 4 0.1% 10.5% 448 4,25 Burlington Springfield 0 0 0.0% 10.7% 346 3,22	"Outside" Mui	nicipalities									
Burlington Springfield 0 0 0.0% 10.7% 346 3,22°	Cumberland	Vineland	186	19	10.2%	14.2%	7,957	56,085			
Burlington Springfield 0 0 0.0% 10.7% 346 3,22	Burlington	North Hanover +	3,090	4	0.1%	10.5%	448	4,257			
Camden Berlin Boro 0 0 0.0% 13.6% 837 6.14	Burlington		0	0	0.0%	10.7%	346				
	Camden	Berlin Boro	0	0	0.0%	13.6%	837	6,149			

^{*} Some municipalities cannot be isolated because census block groups cut across municipal boundaries. Block groups that are shared by more than one municipality are listed separately.

+ Influenced by group quarters population.



Population Estimates



US Census Bureau / NJ Dept of Labor 2001 - 2006

 While North Jersey experienced a population decrease in 2006, Pinelands communities led the population growth in South Jersey growing at twice the rate of the Non-Pinelands in 2006.

Population Estimates

	2005 Estimate	2006 Estimate	Change	% Change
New Jersey	8,657,445	8,666,075	8,630	0.1%
South Jersey	2,387,818	2,402,756	14,938	0.6%
Pinelands	675,977	682,822	6,845	1.0%
Non-Pinelands	1,711,841	1,719,934	8,093	0.5%
100% Land in Pines (11 municipalities)	58,978	59,036	58	0.1%
55-99% Land in Pines (19 municipalities)	327,208	330,801	3,593	1.1%
10-54% Land in Pines (17 municipalities)	289,791	292,985	3,194	1.1%

<u>Description</u>: Population estimates are useful for measuring population during, and calculating per capita values for, intercensal years. Population estimates are particularly important in the later half of the decade as the census year becomes more distant and ceases to be a good measure of current population. Unfortunately, estimates further from the census year have a greater margin of error. Estimates are calculated using birth and death rates and a factor for migration. Estimates for 2005 and 2006 will be updated when 2007 estimates are released, and once the next census is taken (2010), estimates for this decade will be re-adjusted for the final time to reflect the new census.

<u>Unit of Analysis</u>: Population data are compiled at the municipal level and aggregated to allow for inside/outside Pinelands, regional, and statewide analyses.

Summary of Previous Findings:

The population of New Jersey grew by 2.9% between 2000 and 2005, adding just over 243,000 residents. New Jersey's growth was driven by natural increase and international migration. Although internal migration to the state was negative (more US residents moved out than in), the Southern New Jersey region had a positive internal migration (more US residents moved in than out).

The Pinelands municipalities grew more quickly than the Non-Pinelands municipalities and the state from 2000 to 2005, increasing by 9.7% (compared to 2.9% statewide growth and 5.5% growth in South Jersey). Components of population growth (natural increase and migration) cannot be calculated for the Pinelands and Non-Pinelands as this information is not available below the county level.

Update:

Population growth in New Jersey slowed to a 0.1% increase statewide in 2006. For the first time in the monitoring period, North Jersey actually experienced a decrease in population, losing 6,308 residents for the year. Amid this slowdown, the same patterns of growth continued in 2006. The Pinelands communities grew at ten times the rate of the state as a whole and twice the rate of the rest of South Jersey for the year (Pines +1.0%, Non-Pines South Jersey +0.5%, and Statewide +0.1%). However, upon closer examination, it appears that past inside/outside growth trends uncovered by the census block analysis appear to be continuing. The 11 communities with their land area entirely within the Pinelands boundary showed a 0.1% increase in population in 2006. Those communities that straddle the Pinelands boundary showed considerably higher growth of 1.1% for the year (see table above). This suggests that much of the growth may in fact be occurring just outside of the Pinelands boundary.

The following Pinelands communities ranked in the top 10% of South Jersey municipalities in both absolute population growth and percentage population growth: Winslow, Barnegat, Hamilton, Maurice River, and Ocean Township (see Table P4). In comparison, four South Jersey communities outside the Pines achieved such growth: Woolwich (+1,094, +14.6%), West Deptford (+926, +4.4%), Harrison (+588, +5.2%), and East Greenwich (+430, +6.8%).

 Table P4
 Population Estimates

Table F4 Population Estimates								
Municipality	County	2005	2006	Change	South Jersey Rank: Change	% Change	South Jersey Rank: % Change	
Winslow	Camden	37,371	38,612	1,241	1	3.3%	14	
Barnegat	Ocean	20,314	21,192	878	4	4.3%	12	
Egg Harbor Township	Atlantic	37,994	38,793	799	5	2.1%	27	
Monroe	Gloucester	31,349	31,934	585	8	1.9%	33	
Hamilton	Atlantic	23,839	24,423	584	9	2.4%	20	
Stafford	Ocean	25,249	25,819	570	11	2.3%	25	
Galloway	Atlantic	35,744	36,205	461	14	1.3%	43	
Little Egg Harbor	Ocean	19,840	20,283	443	15	2.2%	26	
Maurice River	Cumberland	7,662	8,083	421	17	5.5%	5	
Jackson	Ocean	51,886	52,305	419	18	0.8%	67	
Ocean	Ocean	7,822	8,241	419	18	5.4%	6	
Franklin	Gloucester	16,601	16,853	252	26	1.5%	39	
Southampton	Burlington	10,894	11,028	134	34	1.2%	45	
Plumsted	Ocean	8,050	8,122	72	47	0.9%	62	
Berkeley	Ocean	42,513	42,577	64	51	0.3%	104	
			26,300	64	51		97	
Lacey	Ocean	26,236				0.2%		
Eagleswood	Ocean	1,565	1,614	49	59	3.1%	17	
Port Republic	Atlantic	1,191	1,234	43	65	3.6%	13	
Waterford	Camden	10,674	10,707	33	70	0.3%	94	
Pemberton Township	Burlington	28,802	28,831	29	72	0.1%	113	
Shamong	Burlington	6,844	6,873	29	72	0.4%	89	
Berlin Township	Camden	5,379	5,405	26	76	0.5%	86	
Hammonton	Atlantic	13,551	13,572	21	82	0.2%	103	
Chesilhurst	Camden	1,858	1,879	21	82	1.1%	51	
South Toms River	Ocean	3,697	3,716	19	86	0.5%	84	
Bass River	Burlington	1,557	1,570	13	92	0.8%	66	
Woodland	Burlington	1,363	1,374	11	95	0.8%	68	
Beachwood	Ocean	10,735	10,744	9	101	0.1%	117	
Tabernacle	Burlington	7,328	7,337	9	101	0.1%	109	
Washington	Burlington	643	651	8	106	1.2%	44	
Estell Manor	Atlantic	1,718	1,720	2	116	0.1%	111	
Wrightstown	Burlington	743	741	-2	133	-0.3%	154	
Lakehurst	Ocean	2,682	2,674	-8	145	-0.3%	159	
Medford Lakes	Burlington	4,171	4,161	-10	148	-0.2%	148	
Mullica	Atlantic	6,093	6,080	-13	151	-0.2%	143	
Folsom	Atlantic	1,967	1,948	-19	161	-1.0%	192	
New Hanover	Burlington	9,500	9,479	-21	163	-0.2%	146	
Weymouth	Atlantic	2,319	2,296	-23	165	-1.0%	194	
Buena Vista	Atlantic	7,519	7,487	-32	173	-0.4%	169	
Egg Harbor City	Atlantic	4,486	4,454	-32	173	-0.7%	186	
Buena	Atlantic	3,837	3,804	-33	176	-0.9%	191	
Medford	Burlington	23,437	23,399	-38	181	-0.2%	138	
Woodbine	Cape May	2,559	2,508	-51	185	-2.0%	198	
Manchester	Ocean	41,903	41,813	-90	191	-0.2%	144	
Evesham	Burlington	46,804	46,711	-93	192	-0.2%	142	
Dennis	Cape May	6,050	5,907	-143	192	-0.2%	200	
	Cape May	11,638	11,363	-143 -275	196	-2.4% -2.4%	199	
Upper "Outside" Munic	Cape iviay	11,030	11,303	-215	199	-Z.4 ⁷ /0	133	
"Outside" Munis	O. mada and	E7 000	E0 074	005	00	0.50/	0.5	
Vineland	Cumberland	57,986	58,271	285	23	0.5%	85	
Berlin Borough	Camden	7,815	7,910	95	41	1.2%	48	
Springfield	Burlington	3,546	3,570	24	78	0.7%	72	
Corbin City	Atlantic	530	530	0	125	0.0%	125	
North Hanover	Burlington	7,577	7,577	0	125	0.0%	125	

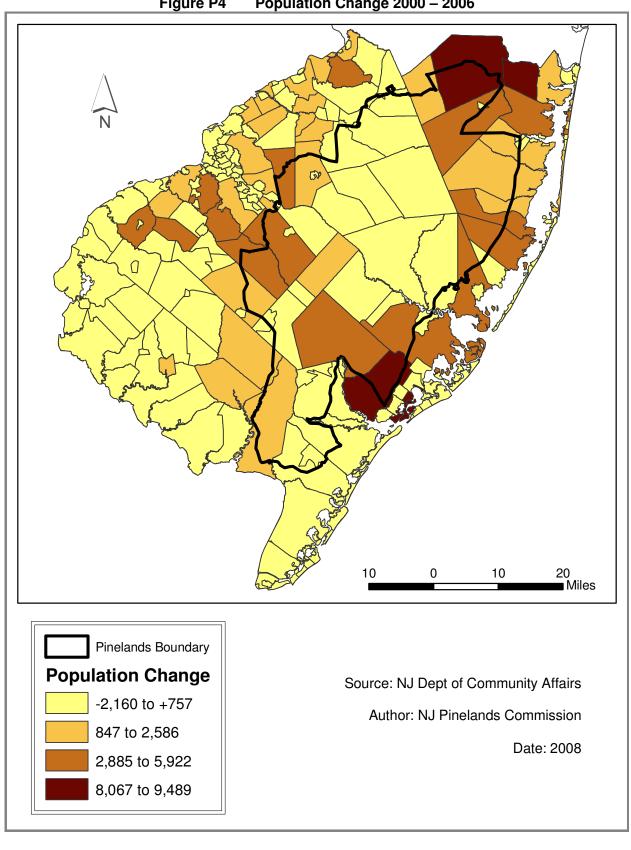
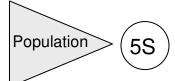


Figure P4 Population Change 2000 – 2006



Uniform Crime Report Statistics

NJ State Police 2007



• The crime rate in the suburban municipalities of the Pinelands was approximately 50% lower than in the suburban municipalities in the Non-Pinelands in 2007.

Violent Crime Rate Per 1,000 Persons - 2007

Community			Statistically				
Character	Pines	Non-Pines	Significant				
Rural	1.3	1.4	No				
Rural Center	3.1	3.9	No				
Suburban	1.7	2.5	No				
Urban Center	n/a	10.8	n/a				
Urban Suburb	n/a	2.6	n/a				

Non-Violent Crime Rate Per 1,000 Persons - 2007

Community			Statistically
Character	Pines	Non-Pines	Significant
Rural	17.7	16.2	No
Rural Center	24	26.9	No
Suburban	19.5	31.8	Yes
Urban Center	n/a	66.8	n/a
Urban Suburb	n/a	26.8	n/a

<u>Description</u>: The New Jersey Uniform Crime Reporting System is based upon the compilation, classification, and analysis of crime data reported by all New Jersey police agencies in accordance with the regulations prescribed by law. All law enforcement agencies in the state submit monthly and annual crime summary reports and this data is used to issue the annual Uniform Crime Report by the New Jersey State Police.

In order to more fairly compare municipalities across the various crime categories, each municipality is classified into one of five groups based on its community character. Those groups were compiled by the Department of Community Affairs Division of State and Regional Planning, and are as follows:

- Urban Center Densely populated with extensive development.
- Urban Suburban Near an urban center but not as extremely developed and more residential areas.
- Suburban Predominantly single family residential, within a short distance of an urban area.
- Rural Scattered small communities and isolated single family dwellings.
- Rural Center High density core area with surrounding rural municipalities.

Data is reported over a broad range of violent and non-violent crimes for each municipality, and the numbers are expressed as the number of incidences of each crime per 1,000 residents of population (2006 population estimates were used for the 2007 Crime Report).

<u>Unit of Analysis</u>: Population data are compiled at the municipal level and aggregated to allow for inside/outside Pinelands, regional, and statewide analyses.

Summary of Findings:

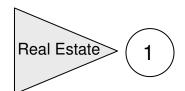
Of the 47 Pinelands municipalities, 28 are classified in the crime report data as rural in nature, 9 are listed as Rural Centers, and the remaining 10 are classified as Suburban in nature. The Non-Pinelands region also has 28 municipalities listed as rural, 12 listed as Rural Centers, and 80 classified as suburban. Unlike the Pines, the Non-Pinelands also includes 9 municipalities classified as Urban Centers and 26 municipalities listed as Urban Suburbs.

In order to compare the two regions to see if there is any statistically significant difference between their crime rates (both violent and non-violent crime) t-tests to detect differences in means were performed in SAS. As can be seen from the table on the preceding page, there is no statistically significant difference between the two regions in regards to violent crime rates. However, there was one statistically significant difference in examining the non-violent crime data. The suburban group in the Pines had about a 50% lower crime rate than in the Non-Pines in 2007, and this was found to be statistically significant. Data would needed to be collected and confirmed over a number of years to validate that in fact there is some difference in regards to crime between the suburban areas of the Pines and the Non-Pines in relation to non-violent criminal activity.

The findings of the municipal fiscal health study may also be of particular use in analyzing the crime data. In addition to classifying the communities by their character, the crime report lists other factors that are likely to effect crime rates that are not included in their annual findings. One of the factors that are mentioned is the economic status of the community. By combining the fiscal health scores with the crime data, it may be possible to further isolate patterns of crime inside and outside the Pinelands region.

Table P5 Crime Rates Per 1,000 Persons in Pinelands Municipalities for 2007

County	Municipality	Total Crime Rate	Violent Crime Rate	Non- Violent Crime Rate	Community Character
Burlington	New Hanover	0.7	0.0	0.7	Rural
Burlington	Shamong Twp.	4.5	1.2	3.3	Rural
Burlington	Medford Lakes	6.7	0.2	6.5	Suburban
Burlington	Tabernacle Twp.	8.6	0.3	8.3	Rural
Atlantic	Weymouth Twp.	8.7	1.3	7.4	Rural
Cumberland	Maurice River	8.7	0.1	8.5	Rural
Ocean	Manchester Twp.	8.9	0.4	8.5	Rural
Ocean	Barnegat Twp.	9.9	1.3	8.5	Rural
Ocean	Plumsted Twp.	11.2	0.5	10.7	Rural Center
Ocean	Jackson Twp.	11.4	0.5	10.9	Suburban
Burlington	Southampton Twp.	11.5	0.8	10.7	Rural
Burlington	Medford Twp.	12.0	0.6	11.4	Rural Center
Atlantic	Port Republic	12.2	0.8	11.3	Rural
Atlantic	Estell Manor	12.8	0.6	12.2	Rural
Ocean	Ocean Twp.	13.5	0.5	13.0	Rural
Atlantic	Hammonton Town	13.5	1.5	12.0	Rural Center
Atlantic	Folsom Boro	13.9	2.1	11.8	Rural
Cape May	Upper Twp.	14.1	0.6	13.5	Rural
Burlington	Evesham Twp.	15.8	0.7	15.0	Suburban
Ocean	Lakehurst Boro	17.6	3.0	14.6	Rural Center
Camden	Waterford Twp.	19.6	1.2	18.4	Rural
Atlantic	Mullica Twp.	19.9	2.1	17.8	Rural
Ocean	Stafford Twp.	19.9	0.9	19.1	Rural
Cape May	Dennis Twp.	20.1	1.4	18.8	Rural
Ocean	Berkeley Twp.	20.3	1.3	19.0	Suburban
Gloucester	Franklin Twp.	20.9	1.0	19.9	Rural
Atlantic	Buena Vista	21.8	2.3	19.5	Rural
Burlington	Pemberton Twp.	22.1	2.6	19.4	Suburban
Ocean	Beachwood Boro	22.4	1.5	20.9	Suburban
Gloucester	Monroe Twp.	22.4	1.4	21.0	Suburban
Camden	Winslow Twp.	23.5	4.2	19.3	Suburban
Ocean	Little Egg Harbor	24.9	1.2	23.7	Rural
Atlantic	Galloway Twp.	26.7	3.0	23.7	Rural
Atlantic	Egg Harbor Twp.	26.7	2.3	24.4	Rural
Atlantic	Egg Harbor City	26.9	4.7	22.2	Rural Center
Ocean	Lacey Twp.	28.3	0.9	27.4	Rural
Ocean	South Toms River	29.6	2.7	26.9	Suburban
Camden	Chesilhurst Boro	30.3	2.7	27.7	Rural
Burlington	Washington Twp.	30.7	0.0	30.7	Rural
Burlington	Bass River	34.4	1.3	33.1	Rural
Atlantic	Buena Boro	35.0	5.8	29.2	Rural Center
Burlington	Wrightstown Boro	35.1	4.0	31.0	Rural Center
Camden	Berlin Twp.	37.9	1.9	36.1	Suburban
Ocean	Eagleswood Twp.	40.3	2.5	37.8	Rural
Burlington	Woodland Twp.	41.5	4.4	37.1	Rural
Cape May	Woodbine Boro	43.5	5.2	38.3	Rural Center
Atlantic	Hamilton Twp.	49.8	3.0	46.8	Rural Center
"Outside" Munis	•				
Burlington	North Hanover	9.0	0.1	8.8	Rural
Burlington	Springfield Twp.	9.8	0.8	9.0	Rural
Camden	Berlin Boro	22.6	1.0	21.6	Suburban
Atlantic	Corbin City	35.8	0.0	35.8	Rural
Cumberland	Vineland City	50.0	5.7	44.2	Urban Center



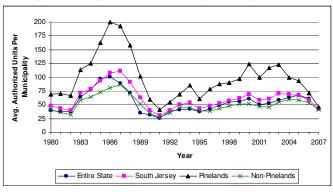
Building Permits for Dwelling Units

New Jersey Department of Labor 1980 – 2007

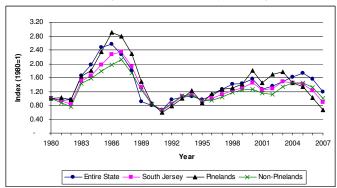


• Building permits in the Pinelands had their biggest one year decline in over a decade in 2007. Activity in the region has fallen sharply in the past four years (-62%), while at the same time decreasing 19% statewide and falling 25% in the Non-Pines.

Avg # Dwelling Units Authorized by Building Permits



Index of Dwelling Units Authorized by Building Permits



<u>Description</u>: Building permit activity measures the number of dwelling units authorized for construction as reported by municipal building inspectors in New Jersey.

<u>Unit of Analysis</u>: Municipal level data are aggregated to allow for inside/outside Pinelands, regional, and statewide analyses. The aggregation method calculates the average units authorized per municipality.

Summary of Previous Findings

The overall trend in permits for dwelling units followed the broad cycle of economic activity, from a building boom in the mid-1980s to recession at the turn of the decade and subsequent recovery. The average number of permits issued by Pinelands municipalities was consistently higher and experienced somewhat higher volatility than other areas throughout the monitoring period. This finding is not surprising because the Pinelands region is less developed than the other regions. Another factor involved is the residential build-up that followed the beginning of casino gambling in Atlantic City in the early 1980s.

Building permit activity has gradually increased in all regions of the state from 1995 to 2003, except for a dip in activity during 2001 due to the onset of economic recession. Pinelands municipalities that ranked highest in building permits during the 1990s tended to be suburban municipalities in the northern and/or eastern Pinelands region. However, much of this building activity actually occurred outside Pinelands boundaries with few exceptions. An analysis conducted in 2001 suggested that as little as 18% of all Pinelands municipalities' building permits were actually directed within the Pinelands boundary. The Pinelands average is traditionally high because it is influenced by a few towns which are experiencing rapid growth – some in regional growth areas inside the Pinelands boundary, others in areas outside the Pinelands boundary. The Non-Pinelands average is affected by a larger number of municipalities that are smaller in land area and / or have little or no remaining developable land. These municipalities drive the Non-Pinelands average downward.

There was a dramatic shift in building permit activity in the Pinelands beginning in 2004 and continuing through 2006. During those three years, the average number of permits issued in the Pinelands decreased from 122 to 71, a decline of 41.8%. In contrast, the state as a whole increased permit activity by 5.2% (from 58 to 61), and the Non-Pinelands South Jersey municipalities experienced a modest decrease in permits of 1.8% (from 55 to 54). In fact, the 2004/2006 period marked the first time since 1987/1988 that building permit activity decreased in the Pinelands in consecutive years.

Update:

The shift in building permit activity in the Pinelands that started in 2004 accelerated significantly again in 2007. The average number of permits (by municipality) issued in the Pinelands decreased from 71 to 46, a decline of 35.2%. This marked the largest one-year slowdown in building permit activity in the Pinelands since 1990, when permits dropped by more than 40%. All of the other regions of the state also experienced a steep decline in permit activity in 2007, although none dropped as quickly as the Pinelands. The state as a whole saw a decrease in permit activity of 23.0% (from 61 to 47) while the Non-Pinelands South Jersey municipality's permits dropped by 24.1% (from 54 to 41).

As was the case in 2006, the drop in permits in the Pinelands was fairly uniform in 2007. Table R1 illustrates the reason for the rather precipitous drop overall in the region – the seven biggest decreases in activity among the municipalities in the Pinelands accounted for over 1,000 fewer permits being issued (Egg Harbor Township, Winslow, Barnegat, Galloway, Jackson, Hamilton, and Monroe together experienced a 49.3% decline in permits). Only Medford showed an appreciable increase in activity in 2007, adding 57 permits issued for an almost six-fold increase for the year.

This year's significant drop in permit activity marks the fourth consecutive year of decline in permits in the Pinelands. During that time, building activity has fallen by over 60% in the Pinelands (versus a drop of 19% statewide and a drop of 25% in the Non-Pinelands). It is quite clear from the data that the slowdown of the national housing market has had a significant impact on the region. Another plausible explanation for the disparity in permit activity is that the Pinelands region has consistently shown more building permit activity over recent years than the Non-Pinelands. One would thus expect that a slowdown in the housing market is likely to have a greater effect on those municipalities that are experiencing more building activity.

Table R1 Residential Building Permits¹⁰

Permits Issued									
Municipality	County	2007	2006	Absolute Change	% Change	5 Year Avg	Permits 2003-2007		
Medford	Burlington	67	10	57			185		
Stafford	Ocean	141	115	26	23%	241	1,204		
Buena Vista	Atlantic	19	9	10	111%	18	90		
Berlin Township	Camden	23	15	8	53%	18	90		
Chesilhurst	Camden	14	7	7			84		
Waterford	Camden	24	18	6		24	122		
Pemberton Township	Burlington	31	26	5		37	185		
Lacey	Ocean	39	35	4		44	219		
Tabernacle	Burlington	14	11	3			66		
Woodland	Burlington	8	5	3		6			
Medford Lakes	Burlington	17	<u></u>		6%	9	44		
Washington	Burlington	3	2	1	50%	3	14		
Manchester	Ocean	2	1	1	100%	31	153		
Folsom									
	Atlantic	3	3	0		3	13		
Weymouth	Atlantic	3	3	0			23		
Wrightstown	Burlington	5	5	0		2	12		
Dennis	Cape May	13	13	0		18	91		
Port Republic	Atlantic	3	4	-1	-25%	16	82		
Eagleswood	Ocean	17	18	-1	-6%	18	89		
Egg Harbor City	Atlantic	12	14	-2			62		
Shamong	Burlington	13	15	-2		21	103		
Beachwood	Ocean	21	23	-2		19	95		
Estell Manor	Atlantic	7	10	-3	-30%	10	52		
Maurice River	Cumberland	11	14	-3	-21%	10	50		
South Toms River	Ocean	2	5	-3	-60%	5	27		
Bass River	Burlington	4	8	-4	-50%	6	28		
Evesham	Burlington	26	30	-4	-13%	91	454		
Buena	Atlantic	1	8	-7	-88%	8	38		
Woodbine	Cape May	10	18	-8		11	57		
Upper	Cape May	14	22	-8			335		
Plumsted	Ocean	21	30	-9		27	134		
Mullica	Atlantic	19	29	-10		25	124		
Lakehurst	Ocean	2	16	-14		5	24		
New Hanover	Burlington	5	21	-16			38		
Berkeley	Ocean		102	-24		121	607		
Ocean	Ocean	173	201	-28		181	905		
Franklin	Gloucester	59		-32					
		106		-32					
Little Egg Harbor	Ocean								
Southampton	Burlington	29							
Hammonton	Atlantic	27	81	-54			483		
Monroe	Gloucester	151	237	-86					
Hamilton	Atlantic	98	192	-94					
Jackson	Ocean	37	146	-109					
Galloway	Atlantic	116	226	-110			1,410		
Barnegat	Ocean	176	300	-124					
Winslow	Camden	148	377	-229					
Egg Harbor Township	Atlantic	335	616	-281	-46%	574	2,870		
"Outside" Munis									
Vineland	Cumberland	218	213	5	2%	173	863		
Corbin City	Atlantic	3		1			17		
Berlin Borough	Camden	17	20	-3			501		
Springfield	Burlington	2	5	-3			47		
North Hanover	Burlington	11	15						

¹⁰ Municipalities with small populations tend to experience greater volatility from one year to the next. This applies to all variables in this report, not just with building permits.

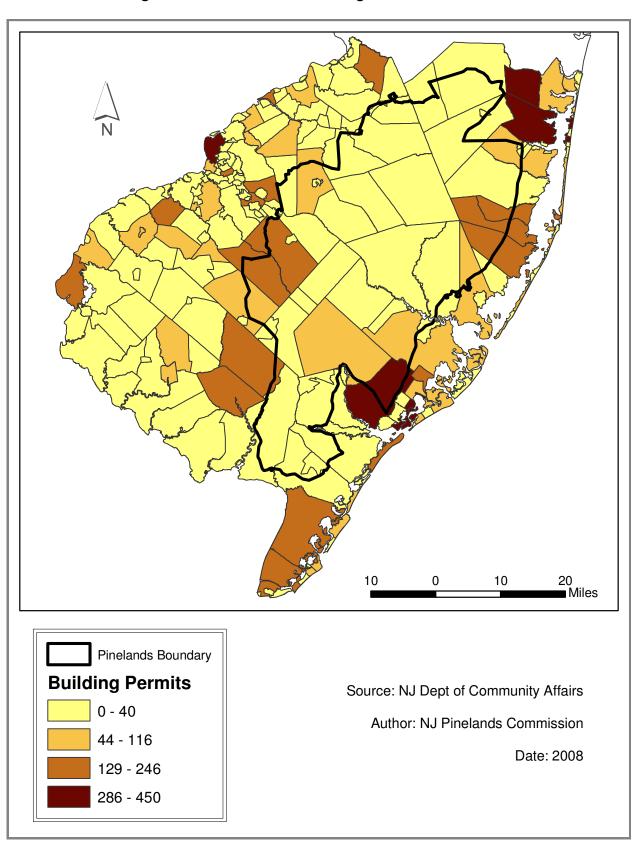
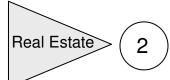


Figure R1 Residential Building Permits Issued 2007



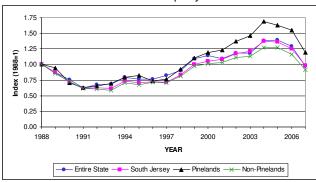
Residential Real Estate Transactions

NJ Dept of Treasury, Div of Taxation 1988 – 2007

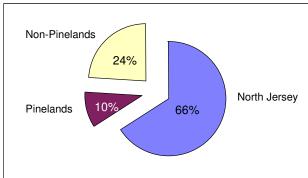


• The real estate boom that began in 1997 and continued through 2004 appears to be over. Transactions fell by more than 20% across all regions in 2007. Activity in the Pinelands fell by 23%, marking the largest one-year decline in the monitoring period.





Percentage of Total Housing Transactions by Region



<u>Description</u>: The number of homes sold in each municipality is derived from useable sales data compiled by the New Jersey Department of Treasury.

<u>Unit of Analysis</u>: Real estate transaction data are compiled at the municipal level and aggregated to allow for inside/outside Pinelands analysis.

Summary of Previous Findings

The proportion of residential real estate transactions in the Pinelands (relative to the number of state transactions) remained relatively steady over the course of the monitoring period from 1988 to 1999. The Pinelands share of total transactions has been increasing since 1999. The actual number of transactions in all regions of the state declined substantially from the beginning of monitoring in 1988 through 1991. Residential real estate transactions increased statewide between 1991and 1996 followed by more substantial increases through 2004. In 2005, activity showed a uniform decline of 7%, marking the first time since 1991 that transactions in all regions of the State decreased simultaneously.

Update:

The pace of residential transactions that began to slow somewhat in 2005 and 2006 dropped precipitously in 2007. For the first time in the monitoring period, all regions of the state experienced a decline in the total number of transactions of greater than 20%. Transactions decreased statewide by 24.7% in 2007. In South Jersey, the Pinelands (-23.4%) decreased at a slightly higher rate than the Non-Pinelands (-21.1%). This marked the first time in seven years that the Pinelands percentage change in transactions was smaller than the Non-Pinelands region.

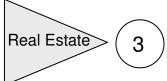
The geographic pattern of transaction activity in the Pinelands remained relatively the same, with Berkeley, Evesham, Jackson, and Galloway again holding the top four spots for number of transactions. As is the case with building permits, much of the activity in real estate transactions is occurring on the fringes of the Pinelands (Figure R2). The phenomenal rate of transactions in Ocean County slowed considerably in 2007. Five of the top ten largest absolute decreases for Pinelands municipalities in 2007 were in Ocean County – Berkeley, Barnegat, Stafford, Manchester, and Lacey together decreased their real estate transaction volume by over 1,200 (Table R2). This marks quite a reversal, as Berkeley and Jackson ranked 1st and 2nd as recently as 2004 for the total increase in all Pinelands municipalities.

Table R2 Residential Housing Transactions

Municipality	County	2007	2006	Change	% Change	5 Year Avg
Little Egg Harbor	Ocean	370	195	175		
Upper	Cape May	113	72	41		
Egg Harbor City	Atlantic	49	15	34		
Tabernacle	Burlington	54	34	20		
Lakehurst	Ocean	35	17	18		
South Toms River	Ocean	41	24	17		
Buena Vista	Atlantic	19	4	15		
Dennis	Cape May	41	26	15		
Eagleswood	Ocean	8	4	4		
Weymouth	Atlantic	3	0	3		
Port Republic	Atlantic	9	7	2		
Maurice River	Cumberland	28	27	1		
New Hanover	Burlington	4	6	-2		
Shamong	Burlington	72	76	-4		
Wrightstown	Burlington	0	5	<u>-</u> -5		
Chesilhurst	Camden	16	22	-6		
Bass River	Burlington	12	18	-6		
Mullica	Atlantic	62	69	<u> </u>	-10%	
Washington	Burlington	2	9	<u> </u>		
Berlin Township	Camden	53	61	-8		
Folsom	Atlantic	19	28	-9		
Medford Lakes	Burlington	64	75	<u>-</u> -11		
Woodland	Burlington	11	23	-12		
Woodbine	Cape May	2	14	-12		
Estell Manor	Atlantic	6	22	-1 <u>2</u> -16		
Ocean	Ocean	134	160	-10 -26		
Buena	Atlantic	20	49	- <u>20</u> -29		
Franklin	Gloucester	153	186	-33		
Hammonton	Atlantic	117	152	-35		
Waterford	Camden	127	169	-33 -42		
Southampton	Burlington	189	232	-43		
Plumsted	Ocean	25	79	- 4 3 -54		
Pemberton Township	Burlington	392	451	-59		
Medford	Burlington	272	335	-63 -63		
Beachwood	Ocean	55	172	-03 -117		
Monroe	Gloucester	423	545	-122		
Jackson	Ocean	636	760	-124		
Hamilton	Atlantic	514	664	-150		
Lacev	Ocean	422				
Manchester	Ocean	454		-189		
Evesham	Burlington	795	994	-199		
Egg Harbor Township	Atlantic	548	747	-199		
Stafford	Ocean	357	565	-208		
Winslow	Camden	704	913	-200		
Galloway	Atlantic	657	877	-209		
			390			
Barnegat Berkeley	Ocean	83		-307		
	Ocean	721	1,057	-336	-32%	1,013
"Outside" Municipalities	Durlington	10	4.0		38%	4.4
North Hanover	Burlington	18	13	5		
Corbin City	Atlantic		7	-6		
Springfield	Burlington	16	27	-11		
Berlin Borough	Camden	83	102	-19		
Vineland	Cumberland	527	678	-151	-22%	554

20 Miles 0 10 Pinelands Boundary **Transactions** Source: NJ Department of Labor 0 - 98 Author: NJ Pinelands Commission 99 - 320 Date: 2007 321 - 721 722 - 1,334

Figure R2 Residential Housing Transactions 2007



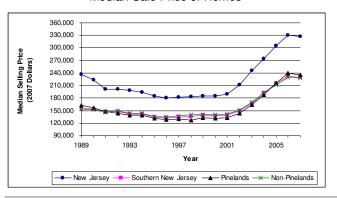
Median Selling Price of Homes



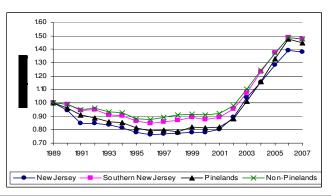
NJ Dept of Treasury, Division of Taxation 1989 – 2007

 The median selling price of homes in the Pinelands increased 102% during the tremendous boom in housing prices from 2001 to 2006. In 2007, home prices dropped slightly across all regions as real estate activity cooled considerably.

Median Sale Price of Homes



Index of Median Sale Price of Homes



<u>Description</u>: The median selling price for homes sold in each municipality in a given year is derived from sales data compiled by the New Jersey Department of Treasury. Selling prices are shown in 2007 dollars.

<u>Unit of Analysis</u>: Data on median selling prices are compiled at the municipal level and are derived from the middle value from the total number of sales for each region for inside/outside Pinelands, regional, and statewide analyses.

Summary of Previous Findings

Median selling prices of homes inside and outside of the Pinelands declined from the beginning of the monitoring period (1989) into the early 1990s, and increased slightly in subsequent years through 2001. This period encompassed the end of a real estate boom, recession, and subsequent recovery. Prices began to escalate for all regions in 2002, in spite of a recession in 2001 and weak job market thereafter. Prices have continued their steady climb ever since across all regions. Overall, median selling prices were slightly higher in the Non-Pinelands than in the Pinelands, which is consistent with data from the years prior to implementation of the CMP and shortly thereafter (see, for example, *Economic & Fiscal Impacts of the Comprehensive Management Plan*, New Jersey Pinelands Commission, 1983). Historically, median selling prices at the state level have been substantially higher than those for Southern New Jersey.

Update:

The median sales price of homes finally began to level off somewhat in 2007 as activity in the real estate market slowed considerably. The median inflation-adjusted sales price of a home fell by 2.3% in the Pinelands. Home prices fell statewide by 1.1%, while the Non-Pinelands region saw a decrease of just 1.0% for the year. The median sales price for a home in the Pinelands was \$242,000 in 2007, compared to \$235,000 for the Non-Pinelands.

This marks the third consecutive year that the median sales price for homes in the Pinelands is higher than for homes in the Non-Pinelands. As recently as 1998, the median sales price in the Pinelands was 6.8% lower than the Non-Pinelands. The median sales price for a Pinelands home in 2007 was 3.0% higher than the Non-Pinelands.

Among Pinelands municipalities, four of the top five municipalities were located in Burlington County (Shamong, Medford, New Hanover, and Tabernacle) and had median sales prices in excess of \$350,000. Plumsted in Ocean County was the lone Pinelands municipality with a median home sale price in excess of \$400,000.

Table R3 Median Home Values - 2007

Municipality	County	Median Sales Price	South Jersey Rank
Plumsted	Ocean	\$410,000	24
Shamong	Burlington	\$381,750	29
Medford	Burlington	\$381,225	30
New Hanover	Burlington	\$361,250	32
Tabernacle	Burlington	\$360,200	33
Port Republic	Atlantic	\$353,000	36
Estell Manor	Atlantic	\$347,500	38
Jackson	Ocean	\$342,488	39
Stafford	Ocean	\$341,000	40
Upper	Cape May	\$300,000	50
Medford Lakes	Burlington	\$293,500	56
Washington	Burlington	\$293,250	57
Weymouth	Atlantic	\$293,000	58
Barnegat	Ocean	\$290,000	59
Dennis	Cape May	\$280,000	63
Lacey	Ocean	\$279,050	66
Beachwood	Ocean	\$272,500	72
Woodbine	Cape May	\$269,000	73
Eagleswood	Ocean	\$267,500	74
Evesham	Burlington	\$267,000	75
Egg Harbor Township	Atlantic	\$257,750	81
Little Egg Harbor	Ocean	\$257,730	82
Ocean	Ocean	\$240,000	90
South Toms River	Ocean	\$235,000	94
	Burlington	\$232,000	96
Bass River Woodland	Burlington	\$230,000	98
Manchester	Ocean	\$230,000	98
	Atlantic		
Hammonton Franklin	Gloucester	\$225,000	101 101
		\$225,000	
Monroe	Gloucester	\$224,890	103 108
Berkeley	Ocean Atlantic	\$219,000	111
Galloway Southampton	Burlington	\$215,000 \$215,000	111
Lakehurst	Ocean	\$215,000	111 117
Egg Harbor City	Atlantic	\$212,000	
Mullica	Atlantic Camden	\$203,500	125
Waterford		\$199,900	128
Berlin Township	Camden	\$198,500	130
Pemberton Township	Burlington	\$195,500	133
Folsom	Atlantic	\$195,000	134
Hamilton	Atlantic	\$195,000	134
Winslow	Camden	\$191,500	140
Buena Vista	Atlantic	\$187,900	144
Buena	Atlantic	\$180,000	153
Maurice River	Cumberland	\$165,000	168
Chesilhurst	Camden	\$157,000	173
Wrightstown	Burlington	No transactions	N/A
"Outside" Municipalities			
North Hanover	Burlington	\$398,750	27
Springfield	Burlington	\$349,250	37
Berlin Borough	Camden	\$274,900	71
Vineland	Cumberland	\$175,000	160
Corbin City	Atlantic	\$115,000	191

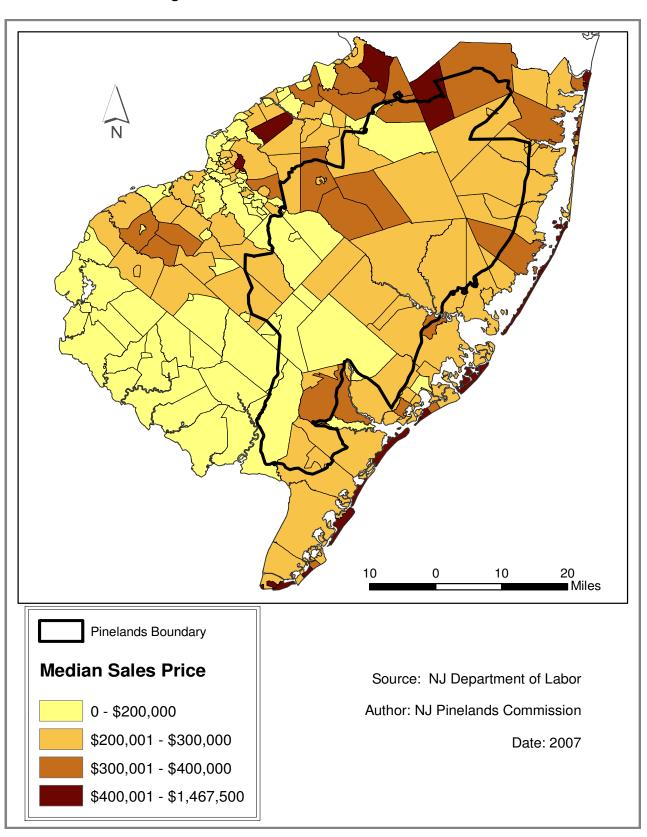


Figure R3 Median Home Sales Prices 2007



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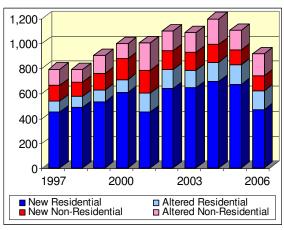
Estimated Costs of Construction by Building Permit Type

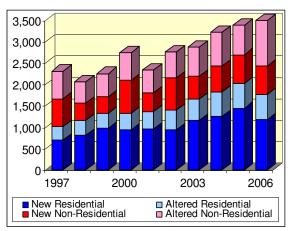


NJ Dept of Community Affairs, Div of Codes & Standards 1997-2006

 Over the past ten years, an average of 63% of total construction costs in the Pinelands has gone toward residential development. Over the same time period, the Non-Pinelands region has devoted 54% of construction costs to residential development.

Estimated Cost of Construction by Building Permit Type (in millions of \$): 1997-2006





Pinelands

Non-Pinelands

<u>Description</u>: All building permits that are issued, both at the residential and non-residential level, are accompanied by an estimated cost of construction. The Long Term Economic Monitoring Program has tracked the absolute number of new residential building permits back to 1980. That is the primary gauge used to measure new development in the region. Construction costs associated with these permits are only available as far back as 1997. By compiling this cost data on a regional level, new pictures emerge as to both the residential and non-residential breakdown of development in each region.

<u>Unit of Analysis</u>: Municipal-level data are aggregated to allow for inside/outside Pinelands analyses. The aggregation method calculates the sum of the costs for all new and altered residential and non-residential construction from 1997 to 2006. The numbers are adjusted for inflation and expressed in 2007 dollars.

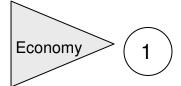
Summary of Findings:

Two findings become clear when examining the building permit cost data that are not as apparent when focusing solely on new residential development. First, it is clear that the split between residential and non-residential costs differs between the Pinelands and the Non-Pinelands. From the tables below, about 70% of all construction in the Pinelands is residential in nature. In the Non-Pinelands, that figure drops to 54%. This finding confirms previous research about the nature of the Pinelands versus the Non-Pinelands and is not surprising.

Region	Total Residential	Total Non-Residential	Total New	Total Altered
Pinelands	69.9%	30.1%	71.3%	28.7%
Non-Pinelands	54.1%	45.9%	59.3%	40.7%

The second clear difference between the two regions is in the "newness" of construction. In the Pinelands, 71% of the construction costs were devoted to either new residential or new non-residential development. In the Non-Pinelands, only 59% of construction costs were for new construction. This is most likely a function of the build-out levels of the two regions. Even with the restrictions for development growth placed on the Pinelands by the CMP, there are still relatively more abundant options for new development inside the Pinelands than there are outside of the Pinelands. While the Non-Pinelands region of South Jersey certainly does not face the same build-out constraints of North Jersey municipalities, in recent years the bulk of the desirable new development has taken place inside the Pinelands border.

Region	New Residential	Altered Residential	New Non-Residential	Altered Non-Residential	
Pinelands	57.0%	12.9%	14.3%	15.8%	
Non-Pinelands	37.8%	16.3%	21.5%	24.4%	



Per Capita Income US Census Bureau 1979, 1989, 1999



Per Capita Income is lower in the Pinelands than in the Non-Pinelands, but is growing at a faster rate.

Per Capita Income

Location	1979 PCI (2004 \$)	1989 PCI (2004 \$)	1999 PCI (2004 \$)	Change 1979-89	Change 1989-99	Change 1979-99
Pinelands	\$16,641	\$22,065	\$23,806	33%	11%	47%
Non-Pinelands	\$19,494	\$27,104	\$27,896	39%	3%	43%
Statewide	\$21,214	\$28,600	\$30,719	35%	7%	45%

<u>Description</u>: Per capita income is an important indicator of regional economic health because it provides information regarding the ability of a region's residents to make purchases and pay taxes, and provides a measure of the economic well being of individuals. Values are adjusted for inflation and shown in 2004 dollars (not 2003 dollars).

<u>Unit of Analysis</u>: Per capita income data are compiled at the municipal level and aggregated to allow for inside/outside Pinelands and statewide analyses.

Summary of Previous Findings

Real per capita income increased significantly inside and outside of the Pinelands during the 1980s, unlike many areas of the country. Per capita income growth in the Pinelands more than kept pace and finished slightly behind the surrounding region in terms of percentage change between 1980 and 1990. The level of per capita income remained higher in absolute terms in the Non-Pinelands region compared to the Pinelands region.

Per capita income continued to increase during the 1990s, but the rate of growth was much lower than in the 1980s. The Pinelands region experienced an 11% increase in income levels between 1989 and 1999, compared to an increase of 7% for the state and 3% for the Non-Pinelands region. While the Pinelands region is catching up to the rest of the state, its income levels are still significantly lower than the rest of the state. Medford Township, Medford Lakes, and Shamong had the highest incomes in the Pinelands, while New Hanover, Washington, and Woodbine had the lowest income levels. Woodland experienced the largest increase in income between 1990 and 2000 (74%), while Washington had the largest decrease (40%). The changes in both towns are anomalies related to shifts in institutional group quarters population and volatility due to small population size. A positive sign is that many towns with the lowest per capita incomes experienced the largest increases in income (i.e. Woodbine, Wrightstown, South Toms River, Maurice River, and Lakehurst).

Geographically, income levels appear as a series of bands that run across Southern New Jersey. A band of higher income surrounds the Philadelphia metropolitan area and stretches into the upper-middle portion of the Pinelands. This band represents suburbanizing communities outside of the city. The band is actually split in two by older, working class suburbs and rural communities that have only begun to suburbanize. Another thin band of high income stretches along the shore. A band of more moderate income stretches across the south-central half of the state, and a smaller, moderate income area is located in the northeastern part of Southern New Jersey. These communities tend to be rural communities, with some experiencing recent suburbanization. A region of poverty exists in the extreme southern portion of the state, along with a small pocket of lower income in the heart of the Pinelands. These areas are predominantly rural, and are the least impacted by development. Smaller pockets of poverty persist in the military towns of Burlington County, and in the older urban areas such as Camden and Atlantic City, which have suffered economic hardship. It is interesting to note that while the Pinelands does have a lower Per Capita income than the Non-Pinelands region, these bands of different income stretch across Southern New Jersey regardless of the Pinelands boundary.

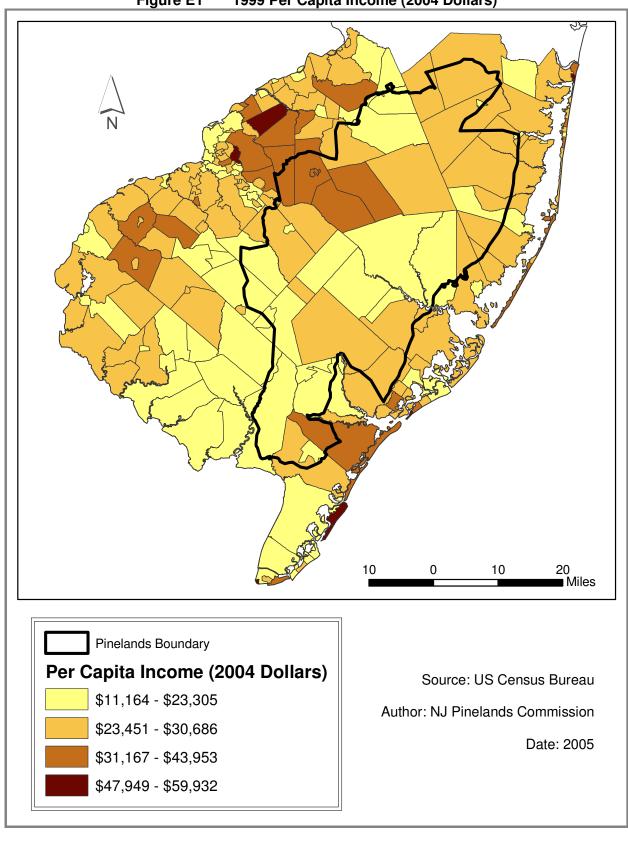


Figure E1 1999 Per Capita Income (2004 Dollars)

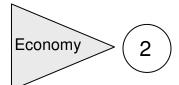
 $^{^{\}star}$ This range excludes Mantoloking Borough, Ocean County, because it is an extreme outlier.

Table E1 Per Capita Income by Pinelands Municipality (2004 Dollars)

Municipality	County	1999	1989	1979	Change 1989-1999	Change 1979-1989
Medford Twp.	Burlington	\$43,953	\$37,570	\$24,947	17%	51%
Medford Lakes Boro	Burlington	\$35,696	\$33,879	\$24,824	5%	36%
Shamong Twp.	Burlington	\$35,187	\$28,747	\$19,110	22%	50%
Evesham Twp.	Burlington	\$33,549	\$30,545	\$22,522	10%	36%
Tabernacle Twp.	Burlington	\$31,706	\$31,054	\$18,181	2%	71%
Upper Twp.	Cape May	\$31,278	\$26,923	\$18,802	16%	43%
Southampton Twp.	Burlington	\$30,686	\$25,501	\$20,050	20%	27%
Woodland Twp. *	Burlington	\$29,718	\$17,065	\$10,658	74%	60%
Stafford Twp.	Ocean	\$28,888	\$22,356	\$17,447	29%	28%
Port Republic City	Atlantic	\$27,719	\$26,901	\$21,058	3%	28%
Jackson Twp.	Ocean	\$27,278	\$24,615	\$17,427	11%	41%
Lacey Twp.	Ocean	\$26,317	\$22,738	\$17,262	16%	32%
Ocean Twp.	Ocean	\$25,969	\$20,577	\$18,332	26%	12%
Plumsted Twp.	Ocean	\$25,517	\$22,972	\$16,623	11%	38%
Manchester Twp.	Ocean	\$25,490	\$22,781	\$18,943	12%	20%
Egg Harbor Twp.	Atlantic	\$25,397	\$24,243	\$17,915	5%	35%
Berkeley Twp.	Ocean	\$25,250	\$21,173	\$16,589	19%	28%
Berlin Twp.	Camden	\$25,226	\$20,638	\$16,281	22%	27%
Waterford Twp.	Camden	\$24,656	\$22,321	\$16,325	10%	37%
Dennis Twp.	Cape May	\$24,404	\$23,385	\$16,286	4%	44%
Hamilton Twp.	Atlantic	\$24,238	\$24,373	\$17,672	-1%	38%
Winslow Twp.	Camden	\$24,176	\$21,421	\$16,570	13%	29%
Beachwood Boro	Ocean	\$24,168	\$22,176	\$16,116	9%	38%
Galloway Twp.	Atlantic	\$23,942	\$24,914	\$17,257	-4%	44%
Little Egg Harbor Twp.	Ocean	\$23,454	\$21,766	\$16,717	8%	30%
Eagleswood Twp.	Ocean	\$23,451	\$20,067	\$13,991	17%	43%
Folsom Boro	Atlantic	\$23,451	\$20,259	\$16,688	16%	21%
Monroe Twp.	Gloucester	\$23,305	\$21,003	\$16,531	11%	27%
Bass River Twp.	Burlington	\$23,184	\$19,865	\$16,842	17%	18%
Franklin Twp.	Gloucester	\$23,065	\$20,647	\$16,043	12%	29%
Hammonton town	Atlantic	\$22,623	\$23,903	\$18,557	-5%	29%
Mullica Twp.	Atlantic	\$22,481	\$21,181	\$16,798	6%	26%
Estell Manor City	Atlantic	\$22,145	\$23,933	\$16,865	-7%	42%
Barnegat Twp.	Ocean	\$21,961	\$20,044	\$14,996	10%	34%
Pemberton Twp.	Burlington	\$21,883	\$19,272	\$14,764	14%	31%
Weymouth Twp.	Atlantic	\$21,597	\$20,707	\$15,753	4%	31%
Lakehurst Boro	Ocean	\$20,918	\$16,040	\$13,676	30%	17%
Buena Vista Twp.	Atlantic	\$20,909	\$19,278	\$14,751	8%	31%
Maurice River Twp.	Cumberland	\$19,497	\$15,572	\$12,658	25%	23%
Buena Boro	Atlantic	\$19,015	\$18,222	\$16,905	4%	8%
South Toms River Boro	Ocean	\$18,532	\$15,329	\$12,791	21%	20%
Chesilhurst Boro	Camden	\$17,349	\$17,111	\$13,655	1%	25%
Egg Harbor City	Atlantic	\$17,234	\$19,090	\$18,097	-10%	5%
Wrightstown Boro	Burlington	\$16,481	\$13,099	\$10,086	26%	30%
Washington Twp. +	Burlington	\$15,898	\$26,357	\$14,516	-40%	82%
Woodbine Boro	Cape May	\$15,168	\$11,505	\$9,637	32%	19%
New Hanover Twp.	Burlington	\$13,809	\$13,866	\$13,592	0%	2%
"Outside" Municipalities						
Springfield Twp.	Burlington	\$33,353	\$28,361	\$19,330	18%	47%
Dover Twp.	Ocean	\$28,448	\$26,447	\$19,048	8%	39%
Berlin Boro	Camden	\$28,067	\$24,112	\$20,551	16%	17%
Corbin City	Atlantic	\$24,252	\$23,097	\$18,142	5%	27%
Vineland City	Cumberland	\$21,381	\$19,811	\$16,061	8%	23%

^{*} Large change is partially the result of a large decrease in institutional population

⁺ Erratic change caused by small population size and presence of large institutional population



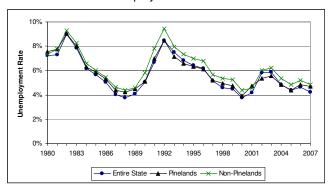
Unemployment



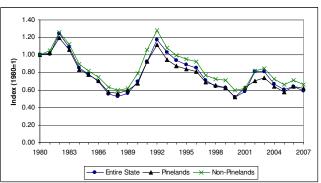
New Jersey Department of Labor 1980 – 2007

• Unemployment showed a small uniform decrease in 2007 across all regions. The Pinelands had a lower rate than the Non-Pinelands for the sixth consecutive year.

Unemployment Rate



Index of Unemployment Rate



<u>Description</u>: The unemployment rate is the proportion of the labor force (defined as the number of people available to be, and desiring to be, working for pay) residing in an area which is unemployed (not working for pay) at a given point in time.

<u>Unit of Analysis</u>: Municipal level data are aggregated to allow for inside/outside Pinelands and statewide analyses. Values are based on sums for each region and not averages.

Summary of Previous Findings

Trends in unemployment in the Pinelands and Non-Pinelands regions have tracked closely together, with levels in the Pinelands consistently lower than the levels in the Non-Pinelands from 1990-2000. Unemployment in New Jersey appeared to follow general economic conditions, declining in the mid-1980s before increasing at the turn of the decade during the recession. Following a peak in 1992, unemployment levels declined steadily by roughly four percentage points by 2000, coinciding with a period of economic growth. Unemployment rose in 2001 with the onset of recession, and job recovery following the end of the recession in 2002 was sluggish, with modest increases in unemployment in 2002 and 2003. In 2004, unemployment decreased in all regions of the state for the first time in four years, and was followed in 2005 by another half a percentage point decrease. However, 2006 brought a small up tick in the jobless rate across all regions of the state (ranging from 0.2% to 0.4%).

Update

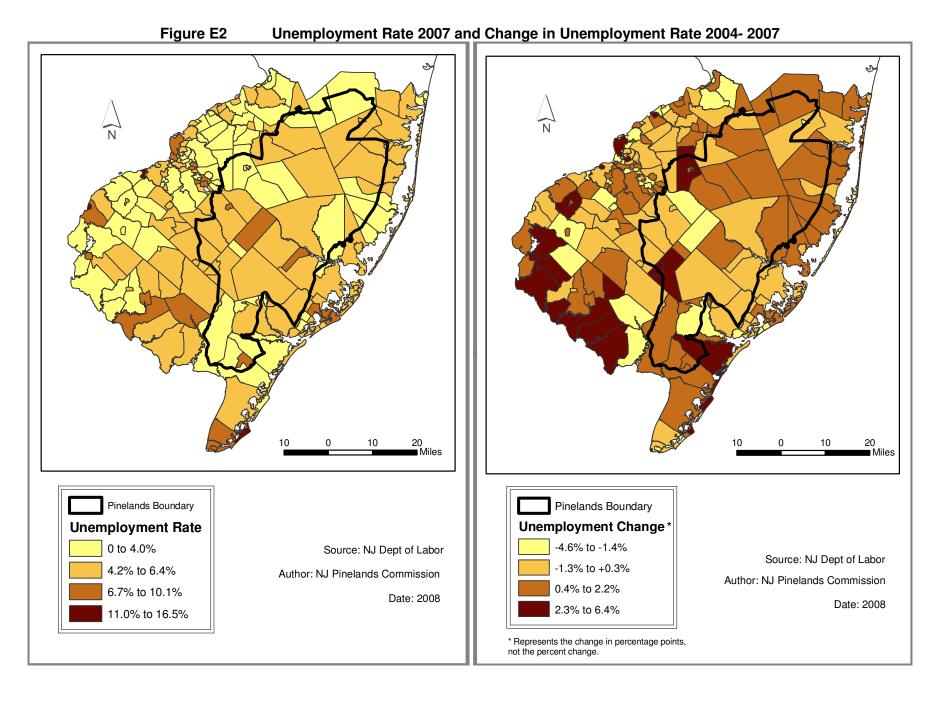
The national job market was remarkably stable in 2007. According to the US Bureau of Labor statistics, approximately 7.1 million Americans were unemployed in 2007, compared to 7.0 million in 2006. The national unemployment rate was unchanged, posting a 4.6% figure in 2007 that duplicated the rate from 2006.

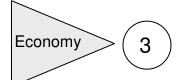
Job growth in New Jersey fared well in comparison to the national average, with the unemployment rate decreasing 0.4% from 4.6% in 2006 to 4.2% in 2007. In the Pinelands, the unemployment rate also decreased 0.1% to settle at 4.7%. The Non-Pinelands experienced a slightly larger decrease in unemployment during the year (-0.4%), finishing with an average rate of 4.8% for the year. In the 27 years of data that is covered in the monitoring period (1980 - 2007), the Pinelands has recorded a lower unemployment rate than the Non-Pinelands in every year with the exception of two: 1980 and 2001.

Unemployment rates in Southern New Jersey are generally the lowest in the easternmost suburbs of Trenton and Philadelphia. The highest rates in South Jersey are found in Cumberland and Cape May counties, and those areas have also shown the largest decline in regards to employment relative to the rest of the region from 2004-2007 (Figure E2). Among Pinelands communities, three municipalities showed tremendous improvement recently, cutting their unemployment rates substantially for the three-year period of 2004 - 2007: Buena (11.5% in 2004 to 6.4% in 2007), Wrightstown (10.1% to 5.5% in three years), and Buena Vista (7.4% to 4.6% in three years).

Table E2 Unemployment 2004 – 2007

	Table E2	Uner	07			
Municipality	County	2007	2006	2005	2004	Three Year Change 2004 - 2007
Estell Manor	Atlantic	6.3%	6.3%	4.6%	3.0%	3.3%
Lakehurst	Ocean	6.4%	7.2%	5.7%	3.9%	2.5%
Hammonton	Atlantic	7.2%	7.2%	6.5%	5.1%	2.1%
Waterford	Camden	4.7%	5.1%	4.7%	3.1%	1.6%
Monroe	Gloucester	5.4%	5.4%	5.0%	4.2%	1.2%
Galloway	Atlantic	5.4%	5.2%	4.5%	4.5%	0.9%
Franklin	Gloucester	6.4%	7.0%	6.5%	5.5%	0.9%
Winslow	Camden	5.8%	6.3%	5.9%	5.0%	0.8%
South Toms River	Ocean	7.4%	8.4%	7.5%	6.6%	0.8%
New Hanover	Burlington	3.2%	3.6%	3.2%	2.6%	0.6%
Ocean	Ocean	5.6%	6.4%	5.5%	5.0%	0.6%
Hamilton	Atlantic	4.8%	4.8%	4.3%	4.3%	0.5%
Evesham	Burlington	2.9%	3.0%	2.7%	2.4%	0.5%
Southampton	Burlington	4.8%	5.3%	5.0%	4.5%	0.3%
Egg Harbor City	Atlantic	8.7%	8.7%	8.2%	8.4%	0.3%
Chesilhurst	Camden	7.5%	8.2%	6.2%	7.3%	0.2%
Egg Harbor Township	Atlantic	5.1%	4.8%	4.2%	5.0%	0.1%
Washington	Burlington	5.8%	6.4%	5.9%	5.8%	0.0%
Port Republic	Atlantic	3.3%	3.3%	2.9%	3.3%	0.0%
Manchester	Ocean	5.9%	6.5%	5.5%	6.0%	-0.1%
Pemberton Township	Burlington	5.5%	5.8%	5.5%	5.9%	-0.4%
Shamong	Burlington	2.7%	3.0%	2.8%	3.1%	-0.4%
Woodbine	Cape May	6.8%	7.1%	7.5%	7.4%	-0.6%
Maurice River	Cumberland	3.8%	4.2%	3.7%	4.4%	-0.6%
Lacey	Ocean	4.5%	4.9%	4.6%	5.1%	-0.6%
Barnegat	Ocean	4.0%	4.5%	4.2%	4.6%	-0.6%
Plumsted	Ocean	2.9%	3.3%	2.9%	3.5%	-0.6%
Woodland	Burlington	4.4%	4.9%	3.0%	5.0%	-0.6%
Tabernacle	Burlington	2.0%	2.2%	2.0%	2.8%	-0.8%
Jackson	Ocean	4.0%	4.4%	3.9%	4.8%	-0.8%
Eagleswood	Ocean	3.9%	4.4%	4.0%	4.7%	-0.8%
Dennis	Cape May	3.8%	4.0%	3.8%	4.7%	-0.9%
Berkeley	Ocean	5.3%	6.0%	5.5%	6.2%	-0.9%
Beachwood	Ocean	4.6%	5.2%	4.5%	5.6%	-1.0%
Bass River	Burlington	3.7%	4.1%	3.7%	4.8%	-1.1%
Berlin Township	Camden	2.8%	3.1%	2.9%	4.0%	-1.2%
Stafford	Ocean	3.9%	4.3%	3.8%	5.2%	-1.3%
Medford Lakes	Burlington	2.2%	1.9%	1.7%	3.5%	-1.3%
Mullica	Atlantic	5.7%	5.7%	5.4%	7.3%	-1.6%
Little Egg Harbor	Ocean	5.0%	5.7%	5.0%	6.6%	-1.6%
Folsom	Atlantic	2.6%	2.6%	3.1%	4.3%	-1.7%
Weymouth	Atlantic	3.4%	3.4%	3.0%	5.3%	-1.9%
Upper	Cape May	1.9%	2.0%	1.9%	4.3%	-2.4%
Medford	Burlington	1.7%	2.4%	2.2%	4.3%	-2.6%
Buena Vista	Atlantic	4.6%	4.6%	4.2%	7.4%	-2.8%
Wrightstown	Burlington	5.5%	6.0%	5.5%	10.1%	-4.6%
Buena	Atlantic	6.4%	6.4%	6.2%	11.5%	-5.1%
"Outside Municipalities"	Allantic	U. 4 /0	0.4 /0	0.2 /0	11.5/0	-J.1 /0
•	Burlington	3.5%	3.9%	4.1%	3.6%	-0.1%
Springfield	Burlington					
Vineland	Cumberland	6.2%	6.5%	5.8%	6.5%	-0.3%
Berlin Borough	Camden	4.0%	4.3%	4.3%	4.4%	-0.4%
Corbin City	Atlantic	4.0%	4.0%	3.6%	4.4%	-0.4%
North Hanover	Burlington	4.6%	5.1%	4.7%	6.0%	-1.4%





Employment, Establishments, Wages

New Jersey Department of Labor 1991 – 2003

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 In the past 10 years, growth in employment and the number of establishments has increased at three times the rate in the Pinelands than in the Non-Pinelands and the state as a whole.

2003 NAICS	Largest Employment Sector	2 nd Largest Sector	3 rd Largest Sector
Atlantic	Accommodation & Food (42%)	Retail (12%)	Health Care (12%)
Burlington	Retail (17%)	Health Care (12%)	Manufacturing (11%)
Camden	Health Care (18%)	Retail (14%)	Manufacturing (10%)
Cape May	Accommodation & Food (26%)	Retail (21%)	Health Care (12%)
Cumberland	Manufacturing (22%)	Health Care (16%)	Retail (16%)
Gloucester	Retail (21%)	Health Care (13%)	Manufacturing (11%)
Ocean	Retail (23%)	Health Care (22%)	Accommodation & Food (10%)
Salem	Health Care (15%)	Retail (13%)	Manufacturing (13%)
Pinelands	Retail (21%)	Health Care (13%)	Construction (10%)
Non-Pinelands	Retail (16%)	Health Care (15%)	Accommodation & Food (15%)
New Jersey	Retail (14%)	Health Care (13%)	Manufacturing (11%)

<u>Description</u>: These three variables collectively describe the composition, size, strength, and location of the job market. The first variable, *employment*, is a basic measure of economic health. Employment data count the number of jobs tracked by unemployment insurance coverage.¹¹ The data are broken down to the first Standard Industrial Classification (SIC) code level (major industry division) to track the shifting of activity between major economic components. The second variable, *number of establishments*, refers to the number of businesses that have employees and is presented at the single-digit SIC code level. The third variable, *wages*, is a measure of economic activity that complements employment and number of establishments. In 2001 the state began using the new North American Industrial Classification System (NAICS) and discontinued the use of SIC codes. NAICS data is broken down to the two-digit level for post 2000 data.

<u>Unit of Analysis</u>: Municipal level data is available for all three variables from the period 1993 to 1999. No municipal data is available for the years 2000-2002, but the NJ Department of Labor once again began collecting that data for 2003. The municipal level data previously collected is presented here along with the new data for 2003. It must be emphasized that there are limitations to municipal data due to disclosure regulations. ¹² Therefore, Pinelands and Non-Pinelands aggregates are approximations, not exact counts. The NJ Department of Labor is under contract to produce county level data each year, so county level data is included as well. County level data is subjected to the same limitations, but to a lesser degree. Municipal data is not comparable to the county data due to the effects of data suppression (i.e. the sum of the municipal parts does not equal the county whole).

Summary of Previous Findings

Employment

The Pinelands region outpaced the Non-Pinelands region and the state for growth in employment from 1993 to 1998. Employment in the Pinelands grew by 16.2% during that period, compared to 10% for the state and 9.2% for the Non-Pinelands region. The largest sectors of employment in the Pinelands are retail, health care, and construction,

Because government employment is not included in all data sets, any such data have been omitted to facilitate comparisons over the entire monitoring period. Federal, state, local, and postal service jobs are therefore not represented in the data shown. This exclusion is in addition to the types of employment not tracked by the New Jersey Department of Labor, which includes "self-employed and unpaid family workers or certain agricultural and in-home domestic workers." As used in this report, the term "employment" refers to the modified private employment figures.

The information derived in this analysis was obtained from the records of the Covered Employment system, which does not release data in cases where it has the possibility of providing information about a single employer or employment location. Data are "suppressed" when the system contains information on three or fewer employers, or when one employer represents 80% or more of the market. While it is unlikely that data suppression has had a large effect at the county level, it is likely to affect data at the municipal level, especially when the data are further broken down by industrial sector.

whereas the largest sectors for the state and Non-Pinelands region are services, retail, and manufacturing. While service employment is greater than retail employment in the Pinelands, employment in the Pinelands is weighted more toward the retail sector and less toward the service sector compared to the state and Non-Pinelands region. Employment shifts between different sectors was minimal in the Pinelands over the course of the monitoring period.

Establishments

The Pinelands region outpaced both the state and Non-Pinelands region for growth in new establishments from 1993 to 1998 by about a two-to-one margin. The Pinelands economy created 21.1% more establishments during the period, while the state grew 10.5% and the Non-Pinelands added 12.6% new businesses over the same time frame.

The sectors with the largest number of establishments are synonymous with the sectors of largest employment. Construction establishments comprise a larger percentage of total establishments in the Pinelands compared to the other regions. The percentage of total establishments in the agricultural sector is also larger in the Pinelands, while the percentage of service and retail sectors is fairly close between all three regions.

Wages

Average annual wages declined statewide by 2.7% from 1993 to 1998. Southern New Jersey fared better in respect to wages over this time period, with wages in the Pinelands rising 2.9% and wages in the Non-Pinelands increasing 3.3%. Average annual wages in the Pinelands still lagged \$2,000 behind the Non-Pinelands by 1998, and trailed the state as a whole by almost \$13,000 annually. The highest paying sectors in the Pinelands in 1998 were wholesale, finance-insurance-real estate, and construction. The highest paying sectors in the state were finance-insurance-real estate, transportation-communications-utilities, and wholesale, and the highest paying sectors in the Non-Pinelands were manufacturing, wholesale, and construction. Agricultural wages are much higher in the Pinelands compared to the Non-Pinelands region, while manufacturing wages are much lower in the Pinelands compared to the Non-Pinelands.

Employment	1993	1998	2003	% Change 93-98	% Change 98-03	Ten Year Change
State	2,872,496	3,160,385	3,264,274	10.0%	3.3%	13.6%
Pinelands	102,031	118,607	136,741	16.2%	15.3%	34.0%
Non Pinelands	550,063	600,769	610,972	9.2%	1.7%	11.1%
Establishments						
State	218,159	241,165	256,253	10.5%	6.3%	17.5%
Pinelands	9,346	11,320	12,363	21.1%	9.2%	32.3%
Non Pinelands	38,149	42,952	42,632	12.6%	-0.7%	11.8%
Wages						
State	\$46,610	\$45,355	\$47,202	-2.7%	4.1%	1.3%
Pinelands	\$31,535	\$32,437	\$33,860	2.9%	4.4%	7.4%
Non Pinelands	\$33,438	\$34,538	\$36,634	3.3%	6.1%	9.6%

Update

In the 2004 Annual Report, updates were provided only at the county level since new municipal data had not been available since 1999. Though data has not been provided for the missing years of 2000 to 2002, the new municipal data released for 2003 allows an analysis once again at the regional Pinelands versus Non-Pinelands level. The charts provided for the counties presented last year have been retained and updated because they capture more data at the individual industrial classification level and they are less subject to data suppression issues.

Employment

While employment was generally flat in the state as a whole and in the Non-Pinelands region from 1998-2003, the Pinelands region continued to post impressive job numbers. For the five-year period, employment increased 15.3% in the Pinelands; in contrast, the Non-Pinelands job market increased only 1.7% and the state increased only 3.3% over the same time frame. Since 1993, job growth in the Pinelands has grown at three times the rate of the Non-Pinelands and the rest of the state, adding almost 35,000 new jobs over that time (+34%).

Establishments

Growth in establishments slowed in all regions from 1998-2003 in comparison to 1993-1998. The Pinelands again fared better in this respect, however. From 1998-2003, the Pinelands added 1,000 new establishments, a gain of 9.2% since 1998. The Non-Pinelands region actually posted a slight decrease (-0.7%) in establishments, dropping from 42,952 in 1998 to 42,632 in 2003. As a whole, the state posted a 6.3% increase in new businesses from 1998-2003. Over the past ten years, the Pinelands have added more than 3,000 new establishments, which represents a gain of 32.3% over the 1993 level. That is twice the rate of growth of the state as a whole (+17.5%) and almost three times the rate of growth of the Non-Pinelands region (+11.8%).

Wages

Annual average wages climbed considerably in all three regions in the period between 1998 and 2003. After posting a real decrease in wages from 1993-1998 of 2.7%, the state as a whole increased average annual wages 4.1% from 1998-2003. Southern New Jersey fared even better over the past five years, with the Pinelands region wages rising 4.4% and the Non-Pinelands posting a strong 6.1% increase in average annual wages. During the ten-year period of 1993-2003, Southern New Jersey has fared very well in comparison to North Jersey in respect to wage growth. During that time, wages in the state as a whole grew very slightly by 1.3%. In contrast, Non-Pinelands wages increased by 9.6%, and the Pinelands region increased by 7.4% over the same time frame.

With the exception of Linwood, Folsom, Medford Lakes, and Evesham, all of the municipal economies at the highest end of the average annual wages scale are located to the west of the Pinelands (Figure E3). A number of these municipalities actually straddle the western border of South Jersey and are logical extensions of the Philadelphia metropolitan economy. Within the Pinelands, four municipalities are of particular note. Jackson, Plumsted, Manchester, and Hamilton, while all posting large increases in population over the past ten years, have relatively low annual wages for their local economies. Of those four, the Ocean County communities have served largely as residential communities. Hamilton, however, has had the largest increase in retail space in all of South Jersey in the past 10 years, but its average annual wages nonetheless have lagged behind the rest of the region.

20 10 10 Miles Pinelands Boundary Source: NJ Dept of Community Affairs **Average Annual Wages** Author: NJ Pinelands Commission \$12,812 - \$26,141 \$26,142 - \$33,563 Date: 2005 \$33,564 - \$43,154 \$43,155 - \$75,462

Figure E3
2003 Average Annual Private Sector Wages for Municipal Economies (in 2004 dollars)

 Table E3a
 County Private Sector Employment

County	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Ten Year Change
Atlantic	113,476	116,307	116,500	117,772	119,816	121,158	121,707	121,119	121,152	120,733	122,184	7.7%
Burlington	121,807	125,979	131,266	135,619	141,175	147,181	151,691	152,700	159,309	162,231	164,589	35.1%
Camden	151,416	156,719	162,748	162,964	165,755	169,553	169,511	166,157	166,567	167,576	169,238	11.8%
Cape May	26,990	27,463	27,226	27,697	28,635	29,149	29,579	29,270	30,985	31,667	32,163	19.2%
Cumberland	42,501	43,525	44,180	44,051	44,842	44,548	44,360	43,819	44,335	44,700	45,348	6.7%
Gloucester	58,462	60,910	65,966	66,581	67,923	69,730	71,711	72,329	74,182	75,464	79,463	35.9%
Ocean	91,843	96,057	98,607	100,073	101,951	102,875	103,708	106,008	110,190	114,037	116,338	26.7%
Salem	23,239	22,454	18,666	18,677	17,727	17,192	17,759	14,918	17,434	17,774	18,390	-20.9%
SJ Total	629,734	649,414	665,159	673,434	687,824	701,386	710,026	706,320	724,154	734,182	747,713	18.7%

Table E3b County Private Sector Establishments

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County	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Ten Year Change
Atlantic	5,721	5,753	5,878	5,988	6,146	6,322	6,551	5,757	6,031	6,118	6,208	8.5%
Burlington	8,407	8,578	9,326	9,532	9,849	10,216	10,548	9,366	10,126	10,403	10,574	25.8%
Camden	10,908	11,034	12,089	12,282	12,666	12,957	13,235	11,601	12,303	12,452	12,720	16.6%
Cape May	3,765	3,812	3,784	3,851	3,982	4,073	4,232	3,668	3,965	3,982	4,098	8.8%
Cumberland	2,921	2,925	2,973	3,011	3,092	3,166	3,238	2,879	2,948	3,098	3,288	12.6%
Gloucester	4,661	4,730	5,076	5,184	5,339	5,523	5,707	5,052	5,243	5,463	5,717	22.7%
Ocean	8,807	9,011	9,467	9,787	10,164	10,537	10,996	9,627	10,372	10,701	11,008	25.0%
Salem	1,241	1,254	1,223	1,226	1,274	1,284	1,318	1,121	1,224	1,282	1,382	11.4%
SJ Total	46,431	47,097	49,816	50,861	52,512	54,078	55,825	49,071	52,212	53,499	54,995	18.4%

Table E3c County Private Sector Average Annual Wages

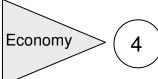
County	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Ten Year Change
Atlantic	\$33,418	\$33,114	\$32,641	\$32,889	\$32,494	\$32,596	\$32,184	\$32,123	\$32,750	\$33,028	\$33,092	-1.0%
Burlington	\$36,984	\$36,837	\$37,057	\$37,650	\$38,207	\$39,808	\$40,496	\$41,090	\$41,167	\$41,572	\$41,173	11.3%
Camden	\$36,084	\$35,841	\$35,628	\$35,896	\$36,327	\$36,718	\$37,278	\$37,277	\$37,594	\$38,288	\$39,285	8.9%
Cape May	\$25,047	\$25,334	\$24,887	\$24,893	\$24,918	\$25,299	\$25,648	\$25,754	\$25,734	\$26,438	\$26,736	6.7%
Cumberland	\$31,852	\$31,651	\$31,363	\$31,466	\$31,724	\$32,645	\$32,302	\$32,382	\$32,188	\$32,902	\$32,687	2.6%
Gloucester	\$33,091	\$32,915	\$32,507	\$32,851	\$33,521	\$34,101	\$34,301	\$34,033	\$34,292	\$34,517	\$34,216	3.4%
Ocean	\$29,335	\$28,924	\$28,621	\$28,784	\$29,009	\$30,330	\$30,515	\$31,119	\$30,876	\$31,331	\$31,566	7.6%
Salem	\$45,272	\$45,548	\$45,993	\$47,091	\$45,932	\$44,585	\$43,653	\$44,252	\$43,447	\$44,655	\$44,075	-2.6%
SJ Average	\$33,885	\$33,771	\$33,587	\$33,940	\$34,016	\$34,510	\$34,547	\$34,753	\$34,756	\$35,342	\$35,354	4.3%

Table E3d 2003 County Private Sector Employment by NAICS Sector

Sector	NAICS		Burlington	i	Cape May	Cumberland	Gloucester	Ocean	Salem	South Jersey
11	Agriculture/Forestry/Fishing/Hunting	1,349	532	127	172	1,347	737	58	473	4,795
21	Mining									0
22	Utilities	192		81				260		533
23	Construction	6,272	7,185	9,482	2,434	2,475	5,796	8,318	929	42,891
31-33	Manufacturing	3,689	17,967	16,187	873	9,761	8,935	5,864	2,343	65,619
42	Wholesale Trade	2,123	10,048	10,993	458	2,011	7,711	3,290	198	36,832
44-45	Retail Trade	15,208	28,227	24,013	6,617	7,209	16,465	26,630	2,356	126,725
48-49	Transportation and Warehousing	2,075	3,709	4,260	282	1,620	1,519	1,912	637	16,014
51	Information	621	2,777	3,304	167	863	575	1,252	21	9,580
52	Finance and Insurance	2,322	16,322	7,246	1,038	1,151	1,783	4,281	493	34,636
53	Real Estate and Rental and Leasing	1,497	3,271	2,710	895	581	927	2,154	118	12,153
54	Professional and Technical Services	4,412	9,671	14,001	1,098	1,107	2,894	5,576	313	39,072
55	Management of Co. and Enterprises		329	42				112		483
56	Administrative and Waste Services	4,047	10,957	11,552	931	1,192	4,987	4,071	664	38,401
61	Educational Services	622	704	1,214	180	313	266	2,139		5,438
62	Health Care and Social Assistance	14,362	19,354	29,823	3,836	7,326	9,962	25,156	2,666	112,485
71	Arts, Entertainment, and Recreation	1,527	1,506	1,793	1,059	447	900	3,434		10,666
72	Accommodation and Food Services	51,346	11,664	12,087	8,376	2,808	7,056	11,213	1,412	105,962
81	Other Services, Except Public Admin	3,109	6,007	6,953	1,316	1,313	2,898	4,756	362	26,714
99	Unclassified Entities	17	111	1,018	101	110	71	466	63	1,957
	PRIVATE SECTOR TOTAL	122,184	164,589	169,238	32,163	45,348	79,463	116,338	18,390	747,713

Table E3e 2003 County Private Sector Employment by NAICS Sector as a % of Total Employment

Sector	NAICS DESCRIPTION	Atlantic	Burlington	Camden	Cape May	Cumberland	Gloucester	Ocean	Salem	South Jersey
11	Agriculture/Forestry/Fishing/Hunting	1.1%	0.3%	0.1%	0.5%	3.0%	0.9%	0.0%	2.6%	0.6%
21	Mining									0.0%
22	Utilities	0.2%		0.0%				0.2%		0.1%
23	Construction	5.1%	4.4%	5.6%	7.6%	5.5%	7.3%	7.1%	5.1%	5.7%
31-33	Manufacturing	3.0%	10.9%	9.6%	2.7%	21.5%	11.2%	5.0%	12.7%	8.8%
42	Wholesale Trade	1.7%	6.1%	6.5%	1.4%	4.4%	9.7%	2.8%	1.1%	4.9%
44-45	Retail Trade	12.4%	17.1%	14.2%	20.6%	15.9%	20.7%	22.9%	12.8%	16.9%
48-49	Transportation and Warehousing	1.7%	2.3%	2.5%	0.9%	3.6%	1.9%	1.6%	3.5%	2.1%
51	Information	0.5%	1.7%	2.0%	0.5%	1.9%	0.7%	1.1%	0.1%	1.3%
52	Finance and Insurance	1.9%	9.9%	4.3%	3.2%	2.5%	2.2%	3.7%	2.7%	4.6%
53	Real Estate and Rental and Leasing	1.2%	2.0%	1.6%	2.8%	1.3%	1.2%	1.9%	0.6%	1.6%
54	Professional and Technical Services	3.6%	5.9%	8.3%	3.4%	2.4%	3.6%	4.8%	1.7%	5.2%
55	Management of Co. and Enterprises		0.2%	0.0%				0.1%		0.1%
56	Administrative and Waste Services	3.3%	6.7%	6.8%	2.9%	2.6%	6.3%	3.5%	3.6%	5.1%
61	Educational Services	0.5%	0.4%	0.7%	0.6%	0.7%	0.3%	1.8%		0.7%
62	Health Care and Social Assistance	11.8%	11.8%	17.6%	11.9%	16.2%	12.5%	21.6%	14.5%	15.0%
71	Arts, Entertainment, and Recreation	1.2%	0.9%	1.1%	3.3%	1.0%	1.1%	3.0%		1.4%
72	Accommodation and Food Services	42.0%	7.1%	7.1%	26.0%	6.2%	8.9%	9.6%	7.7%	14.2%
81	Other Services, Except Public Admin	2.5%	3.6%	4.1%	4.1%	2.9%	3.6%	4.1%	2.0%	3.6%
99	Unclassified Entities	0.0%	0.1%	0.6%	0.3%	0.2%	0.1%	0.4%	0.3%	0.3%



Retail Sales / Establishments

Census of Retail Trade 1992, 1997, 2002

Updated

 Per capita retail sales growth was much stronger in the Pinelands than in all other regions of the state from 1997 – 2002.

Per Capita Retail Sales

COUNTY	1992 Per Capita Sales	1997 Per Capita Sales	2002 Per Capita Sales	5 Year Change 1997 - 2002	10 Year Change 1992 - 2002
Atlantic	\$10,537	\$12,556	\$13,422	6.9%	27.4%
Burlington	\$10,312	\$12,446	\$18,160	45.9%	76.1%
Camden	\$8,525	\$10,788	\$9,845	-8.7%	15.5%
Cape May	\$11,262	\$11,584	\$14,272	23.2%	26.7%
Cumberland	\$8,495	\$10,272	\$10,785	5.0%	27.0%
Gloucester	\$10,388	\$11,722	\$13,256	13.1%	27.6%
Ocean	\$9,415	\$11,573	\$11,297	-2.4%	20.0%
Salem	\$6,565	\$7,262	\$8,809	21.3%	34.2%
South Jersey	\$9,538	\$11,474	\$12,758	11.2%	33.8%
State	\$9,997	\$11,706	\$12,508	6.8%	25.1%
Pinelands ¹³	\$7,795	\$9,588	\$11,577	20.7%	48.5%
Non-Pinelands	\$12,607	\$14,385	\$14,407	0.2%	14.3%

<u>Description</u>: The Census of Retail Trade is conducted every 5 years as part of the Economic Census. The Census Bureau began using a different industrial classification system in 1997, with the largest change being the removal of the eating and drinking establishments classification from the 1997 data. To adjust for this, sales for eating and drinking establishments were removed from the 1992 data. The resulting numbers are suitable for a rough comparison. ¹⁴ Values are adjusted for inflation and shown in 2004 dollars, and sales are presented per capita, based on 1992, 1997, and 2002 population estimates.

<u>Unit of Analysis</u>: Retail sales data are obtained at the county level and aggregated to yield totals for the southern eight-county region and the entire State (see Appendix for Pinelands acreage by county). Partial data for the Pinelands and Non-Pinelands region are available as the Census also collects data at the "place" level, which includes the most populous municipalities (109 out of 202 municipalities are available, 28 in the Pinelands and 81 outside the Pinelands).

Summary of Previous Findings

Per capita retail sales rose in Southern New Jersey between 1992 and 1997, with an increase of 20.3%. The change in sales was generally more significant in the more densely populated counties, while the southern counties experienced smaller increases. Per capita sales are higher for the state as a whole compared to Southern New Jersey, but South Jersey sales have increased at a faster rate. Per capita retail sales for the 28 Pinelands municipalities increased by 23%, while sales for the 81 Non-Pinelands municipalities rose by 14.1%.

Another useful indicator of retail health is the number of retail establishments per resident. This indicates the presence of commercial ratables as well as relative shopping convenience. According to the New Jersey Department of Labor Employer Listing Database, the concentration of retail establishments per resident in the Non-Pinelands was 50% higher than in the Pinelands for 2001.

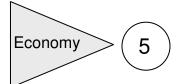
¹³ The categories for Pinelands and Non-Pinelands represent the number of municipalities for which the data is available. Data is available for 28 of the 47 Pinelands municipalities, and 81 of the 155 Non-Pinelands municipalities.

¹⁴ Other noteworthy changes include the reclassification of pawn shops to the Finance and Insurance sector, and of bakeries to the Manufacturing sector, and the addition of Wholesale Trade establishments that have facilities which cater to the general public. The numbers in this report have not been adjusted to reflect these changes.

Update

Released in May 2006, the 2002 Census of Retail Trade shows the Pinelands continuing to gain ground on all other regions of the state in regards to per capita retail sales. Statewide growth in per capita retail sales increased 6.8% from 1997-2002, which marked a slowdown from the 17.1% growth statewide for the period 1992-1997. Per capita retail sales in the Non-Pinelands portion of South Jersey were essentially unchanged from 1997-2002, rising only 0.2%. In contrast, the Pinelands communities followed their 23% gain in per capita retail sales from 1992-1997, with a 20.7% increase in the period from 1997-2002. A large portion of this sustained growth in per capita sales for the Pinelands occurred in Ocean County. Of the seven Pinelands municipalities that experienced growth in sales greater than 40 percent from 1997 - 2002, six were in Ocean County: Ocean Township (+119%), Berkeley (+77%), Jackson (+55%), Lakehurst (+53%), Little Egg Harbor (+49%), and Barnegat (+41%). In Atlantic County, Egg Harbor Township increased per capita sales by 42% over the same period.

The concentration of retail establishments per resident continued to be about 50% higher in the Non-Pinelands than in the Pinelands in 2002. According to the New Jersey Department of Labor, there were 1,598 retail establishments in the Pinelands in 2002 (1 store for every 403 residents). In the Non-Pinelands there were 6,273 retail establishments (1 store for every 268 residents). The pattern again appears to show higher concentrations of establishments in municipalities in the Pinelands that contain regional growth areas.



Assessed Farmland Acreage

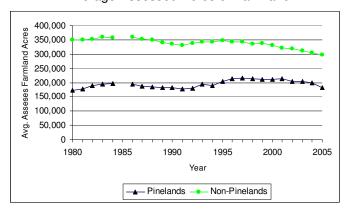


New Jersey Agricultural Statistics Service 1980 – 2005*

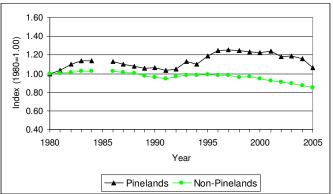
* Data from 1985 is not available.

 Assessed acres in farmland dropped 8.4% in the Pinelands in 2005, marking the largest one-year percentage decrease in the monitoring period.

Average Assessed Acres of Farmland



Index of Average Assessed Acres of Farmland



<u>Description</u>: Agriculture is recognized in federal and state Pinelands legislation as an industry of special significance, and therefore receives a more detailed examination using three variables. The first variable, farmland assessed acreage, is compiled from FA-1 forms, which are completed by landowners and indicate acreage devoted to various crops and pasture as well as livestock. To qualify for farmland assessment, a landowner must have a minimum of five contiguous acres devoted to agricultural or horticultural use, and generate a minimum of \$500 in sales (plus an additional \$5 per acre for every acre of agricultural land beyond the first five acres or \$0.50 per acre for every acre of woodland land beyond the first five acres).

<u>Unit of Analysis</u>: Farmland assessment data is compiled at the municipal level and aggregated to examine Pinelands and county totals.

Summary of Previous Findings

Assessed farmland acres were fairly stable in the Non-Pinelands portion of South Jersey from 1980-1995. Since 1995, development pressures have slowly eroded the farm base outside the Pinelands and assessed acres in that region have decreased in eight of the nine years from 1995-2004. In contrast, the Pinelands has shown a substantial increase in acreage devoted to agriculture since 1980. This growth was fueled by two periods that contributed significantly to farmland acres in the Pinelands: from 1980-1983, farm acreage increased 13.8% in the Pinelands, and from 1992-1996 acreage increased by 19.2%. Over the entire period monitored, the Pinelands percentage of South Jersey farm acres has increased from 33% in 1980 to 40% in 2004.

Burlington County has the largest amount of farm acreage in the Pinelands, while the overwhelming majority of Atlantic, Camden, and Ocean Counties' assessed farmland falls inside the Pinelands. Much of the decrease in farm acres in the Non-Pinelands has been concentrated in Burlington, Camden, Cape May, and Gloucester counties.

Update

After a 2.4% decrease in acres farmed in 2004, the Pinelands region experienced a steep 8.4% decrease in acres farmed in 2005. For the year, there were 182,074 acres in farmland in the Pinelands. The Non-Pinelands farmland acreage decreased for the tenth consecutive year in 2005, falling 2.4% to a total of 296,739 acres. Since one-year changes in acreage can be affected by seasonal factors such as weather and economic conditions, averages over five-year periods are also tracked to reveal longer-term trends (Table E5).

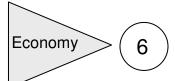
Figure E5 depicts the current assessed acreage in farmland for South Jersey (as of 2005). It is clear that New Jersey's "farm belt" covers most of Salem and Cumberland counties and then extends northeasterly through the heart of the Pinelands. A good portion of Camden County and the shore communities of Ocean, Atlantic, and Cape May counties have very little, if any, active acreage in farming.

Table E5 Farmland Assessed Acreage

Average Farm	land Assessed Ad				
	1986-1990	1991-1995	1996-2000	2001-2005	Change between
County	Average	Average	Average	Average	86-90 and 01-05
Atlantic	40,398	39,816	43,306	41,888	4%
Burlington	87,467	89,013	91,871	84,314	-4%
Camden	10,275	10,047	10,996	10,807	5%
Cape May	7,518	7,298	7,011	6,305	-16%
Cumberland	8,132	5,570	10,369	10,506	29%
Gloucester	19,710	21,123	22,636	20,240	3%
Ocean	12,221	15,900	26,543	26,009	113%
Average Farm	land Assessed Ad	ereage in the Non	-Pinelande Munic	ninalities	
Average Failing	1986-1990	1991-1995	1996-2000	2001-2005	Change between
County	Average	Average	Average	Average	86-90 and 01-05
Atlantic	217	278	288	351	62%
Burlington	69,521	64,463	61,786	54,027	-22%
Camden	3,669	2,796	2,397	1,799	-51%
Cape May	6,881	5,493	5,496	4,904	-29%
Cumberland	77,340	81,779	86,029	78,571	2%
Gloucester	63,862	60,619	57,277	49,098	-23%
Ocean	826	737	705	549	-34%
Salem	125,194	123,236	123,301	121,122	-3%
Percentage of	Total Average Fa				
0 - 1	1986-1990	1991-1995	1996-2000	2001-2005	Change between
County	Average	Average	Average	Average	86-90 and 01-05
Atlantic	99%	99%	99%	99%	0%
Burlington	56%	58%	60%	61%	5%
Camden	74%	78%	82%	86%	12%
Cape May	52%	57%	56%	56%	4%
Cumberland	10%	6%	11%	12%	2%
Gloucester	24%	26%	28%	29%	6%
Ocean	94%	96%	97%	98%	4%

20 Miles 10 10 Pinelands Boundary **Farmland Assessed Acreage** Source: NJ Dept of Community Affairs 0 - 1,904 Author: NJ Pinelands Commission 2,001 - 5,640 Date: 2008 5,906 - 10,735 12,316 - 20,672

Figure E5 Farmland Assessed Acreage 2005



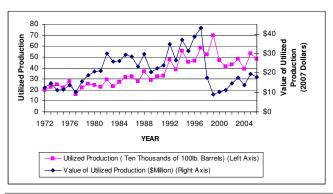
Cranberry and Blueberry Production

NJ Agricultural Statistics Service 1972 - 2006

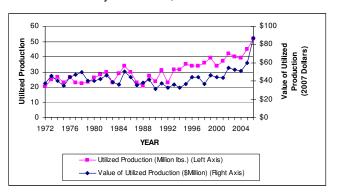


• The blueberry industry in the Pinelands enjoyed both record production and a record price increase in 2006. While cranberry prices remained stable, a slight decrease in production for the year led to a small drop in value of utilized production for 2006.

NJ Cranberry Production, Value and Volume



NJ Blueberry Production, Value and Volume



<u>Description</u>: Agriculture is recognized in federal and state Pinelands legislation as an industry of special significance and, therefore, receives a more detailed examination using three variables. The second indicator, *cranberry and blueberry production*, measures a critical component of Pinelands agriculture. Cash values are expressed in 2006 dollars.

<u>Unit of Analysis</u>: Cranberry and blueberry data are only available at the State level, but because these crops are found almost exclusively within the Pinelands, statewide figures provide sufficient information for the purposes of this analysis.

Summary of Previous Findings

Examination of two key Pinelands crops, cranberries and blueberries, revealed that cranberry production grew significantly from 1972 to 1996 but plummeted precipitously from 1997 to 1999 due to increased production (Growers developed more efficient bogs to take advantage of good cranberry prices) without increased demand. Nationally, increased production combined with steady demand created a surplus of frozen cranberries. Increased foreign production of cranberries also may have been a contributing factor. A small recovery in cranberry farming began in 2000, which may have been aided by actions such as nationwide production cutbacks and USDA surplus. Production has decreased by 39% between 1999 and 2002. The value of production increased dramatically, growing 63% between 1999 and 2002, with the price of cranberries climbing from \$11.84 per 100 lbs in 1999 to \$31.42 per 100 lbs in 2003, an increase of 166%. Despite this increase, prices remain well below their peak of \$76.93 per 100 lbs in 1996.

The value of utilized production for blueberries remained fairly steady, with yearly fluctuations from 1972-1997. Overall production increased by 61% between 1998 and 2003. The value of production increased consistently over this five-year period, rising by 11%, while the sale price improved by 28%. (Figure E6). Like cranberries, the blueberry market has suffered from a combination of increasing production and steady demand. To respond to poor market conditions, the blueberry industry created a blueberry council to increase promotional activities and strengthen demand for blueberries.

Update

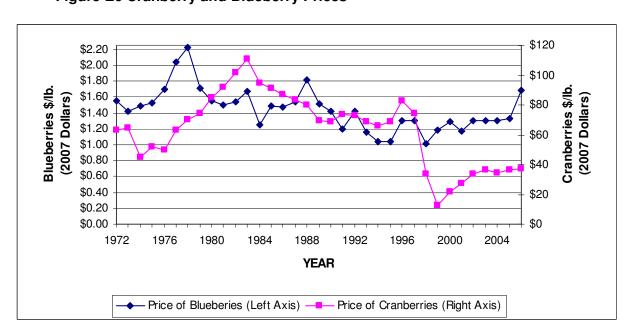
While the cranberry industry experienced a modest decline in 2006, the blueberry industry turned in one of its most impressive years on record. The value in utilized production of cranberries decreased for only the second time in seven years in 2006, falling 9% to \$17.8 million. This decrease was due primarily to a 10% decrease in production. Cranberry prices increased by 1% for the year to finish at \$36.99 per 100 lbs. The blueberry industry experienced

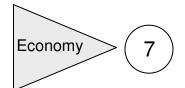
explosive growth in 2006, with the value of utilized production increasing by 46.2% for the year. This was by far the largest one-year increase in utilized value over the entire monitoring period. In 1985, the blueberry industry enjoyed a 38% increase in utilized value, but in no other year has the industry managed to top a 30% increase in utilized value until 2006. The increase in utilized value in 2006 was due to a combination of strong production and explosive price growth. Blueberry production increased 15.6% in 2006 to 45 million pounds for the season. Blueberry prices, which had remained relatively flat for six consecutive years, skyrocketed by 26.8% in 2006, posting a price of \$1.68/lb. In the 35 years of data in the monitoring period, there are only four years that blueberries had a higher price than in 2006 (from 1977-1979 and in 1988).

Table E6 Sales of New Jersey Farm Products (millions of \$)

		Sales		Annual % Change					
Year	Cranberry	Blueberry	New Jersey	Cranberry	Blueberry	New Jersey			
1992	\$34,930	\$32,675	\$966,765	n/a	n/a	n/a			
1993	\$26,490	\$36,356	\$1,020,258	-24.2%	11.3%	5.5%			
1994	\$28,357	\$32,897	\$1,080,186	7.1%	-9.5%	5.9%			
1995	\$31,294	\$36,533	\$1,051,486	10.4%	11.1%	-2.7%			
1996	\$38,646	\$44,202	\$1,071,612	23.5%	21.0%	1.9%			
1997	\$43,120	\$44,480	\$1,045,361	11.6%	0.6%	-2.4%			
1998	\$17,661	\$36,554	\$1,042,633	-59.0%	-17.8%	-0.3%			
1999	\$8,916	\$46,143	\$933,757	-49.5%	26.2%	-10.4%			
2000	\$10,243	\$44,045	\$1,030,214	14.9%	-4.5%	10.3%			
2001	\$11,290	\$43,573	\$979,775	10.2%	-1.1%	-4.9%			
2002	\$16,019	\$54,644	\$1,010,425	41.9%	25.4%	3.1%			
2003	\$17,484	\$52,170	\$970,077	9.1%	-4.5%	-4.0%			
2004	\$13,672	\$50,750	\$951,174	-21.8%	-2.7%	-1.9%			
2005	\$19,495	\$59,673	\$939,688	42.6%	17.6%	-1.2%			
2006	\$17,757	\$87,245	\$962,835	-8.9%	46.2%	2.5%			

Figure E6 Cranberry and Blueberry Prices





Census of Agriculture



US Census of Agriculture 1982, 1987, 1992, 1997, 2002

 According to the 2002 Census of Agriculture, the seven Pinelands counties are responsible for more than half of the agricultural sales statewide.

<u>Description</u>: Agriculture is recognized in federal and state Pinelands legislation as an industry of special significance, and therefore receives a more detailed examination that uses three variables. The third indicator is actually a collection of indicators from the Agricultural Census, which is taken every five years.

<u>Unit of Analysis</u>: Agricultural Census data is limited to the county level and consequently inside/outside Pinelands trends cannot be distinguished.

Summary of Previous Findings

The seven Pinelands counties contained nearly 34% (287,000 acres) of the roughly 847,000 farm acres reported for New Jersey in the 1992 Census of Agriculture. From 1982-1992, the State lost 7.5% of its farm base, with Pinelands counties experiencing a 9.5% decline and Non-Pinelands counties experiencing a 6.4% loss. From 1982-1997, the State lost 9.1% of its farm base, with Pinelands counties experiencing an 8.7% decline and Non-Pinelands counties experiencing a 9.5% loss. However, from 1992-1997, farm acres in Pinelands counties increased by roughly 1% to 289,435 acres, which represents almost 35% of the State's 832,600 farm acres. Cape May County continued to have high rates of decline in its farm base from 1992 to 1997. In contrast, Atlantic, Burlington, Camden and Ocean Counties experienced gains in farmland acreage over the same period.

The number of farms from 1992-1997 remained relatively constant for Pinelands counties, Non-Pinelands counties and the State. The average farm size increased slightly for Pinelands counties from 1992-1997. However, the average farm size for Non-Pinelands counties and the State continued to decrease over the same period.

With respect to agricultural sales, Pinelands counties contributed nearly 48% of total sales statewide in 1992. Similarly, Pinelands counties contributed 45% of total agricultural sales statewide in 1982 while accounting for only 35% of farm acreage. From 1992-1997, agricultural sales in Pinelands counties increased 18.4% while agricultural sales in Non-Pinelands counties increased by 10.7%. Pinelands counties contributed 49.4% of total sales statewide in 1997; a high value relative to its 34.8% share of total State agricultural acreage.

In terms of net cash returns, farms in the Pinelands counties accounted for 57.4% of statewide net returns in 1997, up 3% from 1992. Burlington County's share of statewide returns increased from 11% in 1992 to 13.5% in 1997. Comparison of total net cash returns over the monitoring period (1987-1997) clearly demonstrates the influence of economic conditions on the State's farm sector. The effect of the recession can be seen as statewide returns dropped 24.2% from 1987-1992, with Non-Pinelands counties experiencing a steeper decline of 32.4% and Pinelands counties a more moderate decline of 15.6%. Aggregate trends, however, were shown to be misleading with the Pinelands county returns dropping 29% when Cumberland County's contribution was removed. The economic upswing can be seen as statewide returns increased 60.5% from 1992-1997, with Pinelands counties experiencing a greater increase of 69.6% and Non-Pinelands counties a more moderate increase of 49.8%.

Net cash return per farm in Pinelands counties also increased at a faster rate than the remainder of the State and remained at overall higher levels. Net cash return per farm in Pinelands counties increased 70.1% from 1992-1997, while Non-Pinelands counties increased by 49.3% over the same period.

More than half of New Jersey's farms lost money in 1987, 1992, and 1997 while the proportion of farms losing money grew each year. Almost 55% of farmers statewide lost money in 1997, up 1.5% from 1992. However, farmers in Pinelands counties continued to fare better than farmers in Non-Pinelands counties. The percentage of farmers in Pinelands counties that lost money in 1997 was 45.6%, down almost 2% from 1992.

Update

By nearly any measure used in the recently released 2002 Census of Agriculture, the Pinelands counties made considerable gains in relation to the rest of the state in regards to agriculture between 1997 and 2002. Over the five-year period, Pinelands counties increased their acres in farming by 2.3% to 295,959 acres. The remainder of counties in the state had a net decrease of 10.2% in acres farmed. The increase in the Pinelands is due primarily to

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increases in Burlington and Cumberland counties that totaled more than 11,500 acres (Burlington +7,610, +7.3% and Cumberland +3,903, +5.8%).

The same story holds true for the number of farms during the 1997-2002 period. Pinelands counties had an increase of 6.4% in the number of farms during the period, in contrast to a 4.6% decline in the rest of the state. While average farm size did decrease in the Pinelands counties (-3.9%), the drop in the rest of the state was larger (-5.8%). Again, the two largest agricultural bases in the Pinelands (Burlington and Cumberland counties) recorded increases in farm size between 1997 and 2002 (+10.8% and +6.8% respectively).

Agricultural sales in the Pinelands counties relative to the rest of the state continued their increase from previous agricultural censuses. With \$406 million in sales in 2002, the Pinelands counties for the first time make up more than half of the state's agricultural sales (52.8%) while comprising only 36.7% of the total acres farmed in the state. In terms of net cash returns, farms in the Pinelands counties posted profits of \$107.7 million in 2002, a total that represents 68.4% of statewide agricultural profits. Net cash return per farm in the Pinelands counties did decline 15.2% from 1997 to 2002; however, in the rest of the state net cash return per farm dropped 49% over the same period.

Farm viability continues to be an issue in New Jersey. In 2002, more than half (56.1%) of the farms in the Pinelands counties posted net losses. In the rest of the state, 64.4% of farms had net losses for the year. Gloucester and Ocean counties had the highest percentage of farms with losses in the Pinelands in 2002 (74.1% and 60.4% respectively). In contrast, Atlantic County was the only Pinelands county to decrease its percentage of farms, with net losses from 1997 to 2002 (1997: 53.5% and 2002: 43.2%).

Table E7a Land in Farming

	L	and in Farn	ning (acres)		Percentage Change			
County	1987	1992	1997	2002	'87-'92	'92-'97	'97-'02	'87-'02
Atlantic	29,423	29,606	31,620	30,337	0.6%	6.8%	-4.1%	3.1%
Burlington	103,224	97,186	103,627	111,237	-5.8%	6.6%	7.3%	7.8%
Camden	10,033	7,799	9,446	10,259	-22.3%	21.1%	8.6%	2.3%
Cape May	13,553	11,644	9,840	10,037	-14.1%	-15.5%	2.0%	-25.9%
Cumberland	72,406	68,627	67,194	71,097	-5.2%	-2.1%	5.8%	-1.8%
Gloucester	62,128	61,748	58,888	50,753	-0.6%	-4.6%	-13.8%	-18.3%
Ocean	8,820	10,365	12,061	12,239	17.5%	16.4%	1.5%	38.8%
Pinelands Counties	299,587	286,975	289,435	295,959	-4.2%	0.9%	2.3%	-1.2%
Non-Pinelands Counties	594,839	560,620	567,474	509,723	-5.8%	1.2%	-10.2%	-14.3%
State Total	894,426	847,595	856,909	805,682	-5.2%	1.1%	-6.0%	-9.9%

		Number	F	Percentage Change				
County	1987	1992	1997	2002	'87-'92	'92-'97	'97-'02	'87-'02
Atlantic	384	391	465	456	1.8%	18.9%	-1.9%	18.8%
Burlington	834	816	935	906	-2.2%	14.6%	-3.1%	8.6%
Camden	177	188	236	216	6.2%	25.5%	-8.5%	22.0%
Cape May	124	163	165	197	31.5%	1.2%	19.4%	58.9%
Cumberland	612	609	622	616	-0.5%	2.1%	-1.0%	0.7%
Gloucester	681	704	718	692	3.4%	2.0%	-3.6%	1.6%
Ocean	206	233	268	217	13.1%	15.0%	-19.0%	5.3%
Pinelands Counties	3,018	3,104	3,101	3,300	2.8%	-0.1%	6.4%	9.3%
Non-Pinelands Counties	6,014	5,975	6,944	6,624	-0.6%	16.2%	-4.6%	10.1%
State Total	9,032	9,079	10,045	9,924	0.5%	10.6%	-1.2%	9.9%

	Av		Percentage Change					
County	1987	1992	1997	2002	'87-'92	'92-'97	'97-'02	'87-'02
Atlantic	77	76	68	67	-1.3%	-10.5%	-2.2%	-13.6%
Burlington	124	119	111	123	-4.0%	-6.9%	10.8%	-1.0%
Camden	57	41	40	47	-28.1%	-2.4%	18.7%	-16.7%
Cape May	109	71	60	51	-34.9%	-16.0%	-14.6%	-53.3%
Cumberland	118	113	108	115	-4.2%	-4.4%	6.8%	-2.2%
Gloucester	91	88	82	73	-3.3%	-6.8%	-10.6%	-19.4%
Ocean	43	44	45	56	2.3%	2.3%	25.3%	31.2%
Pinelands Counties	99	92	93	90	-7.1%	1.5%	-3.9%	-9.4%
Non-Pinelands Counties	99	94	82	77	-5.1%	-13.1%	-5.8%	-22.3%
State Total	99	93	85	81	-6.1%	-8.3%	-4.8%	-18.0%

Table E7b Agricultural Sales (2004 Dollars)

	Agric	Agricultural Sales (\$1,000s)				Percentage Change				Agricultural Sales as % of New Jersey			
County	1987	1992	1997	2002	'87-'92	'92-'97	'97-'02	'87-'02	1987	1992	1997	2002	
Atlantic	62,162	58,685	74,944	82,700	-5.6%	27.7%	10.3%	33.0%	7.5%	8.2%	9.1%	10.7%	
Burlington	92,618	87,212	103,361	87,698	-5.8%	18.5%	-15.2%	-5.3%	11.2%	12.1%	12.6%	11.4%	
Camden	13,217	11,049	20,632	14,366	-16.4%	86.7%	-30.4%	8.7%	1.6%	1.5%	2.5%	1.9%	
Cape May	7,677	7,583	8,037	11,852	-1.2%	6.0%	47.5%	54.4%	0.9%	1.1%	1.0%	1.5%	
Cumberland	97,149	98,599	111,175	129,222	1.5%	12.8%	16.2%	33.0%	11.7%	13.7%	13.5%	16.8%	
Gloucester	77,390	73,720	79,080	69,534	-4.7%	7.3%	-12.1%	-10.2%	9.4%	10.2%	9.6%	9.0%	
Ocean	8,202	6,817	9,647	11,300	-16.9%	41.5%	17.1%	37.8%	1.0%	0.9%	1.2%	1.5%	
Pinelands Counties	358,415	343,664	406,876	406,671	-4.1%	18.4%	-0.1%	13.5%	43.3%	47.7%	49.4%	52.8%	
Non-Pinelands Counties	462,459	376,298	416,587	363,147	-18.6%	10.7%	-12.8%	-21.5%	55.9%	52.3%	50.6%	47.2%	
State Total	827,445	719,961	823,463	769,819	-13.0%	14.4%	-6.5%	-7.0%	100.0%	100.0%	100.0%	100.0%	

Table E7c Net Cash Return for New Jersey Farms (2004 Dollars)

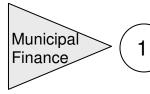
	Total Net Cash Return (1,000's)			Per	Percentage Change			Total Net Cash Return as Pct. of NJ		
County	1992	1997	2002	'92-'97	'97-'02	'92-'02	1992	1997	2002	
Atlantic	\$13,924	\$17,542	\$28,037	26.0%	59.8%	101.4%	10.8%	8.4%	17.8%	
Burlington	\$14,226	\$27,948	\$23,347	96.5%	-16.5%	64.1%	11.0%	13.5%	14.8%	
Camden	\$2,580	\$9,263	\$3,977	259.1%	-57.1%	54.1%	2.0%	4.5%	2.5%	
Cape May	\$1,318	\$2,287	\$5,637	73.5%	146.4%	327.6%	1.0%	1.1%	3.6%	
Cumberland	\$23,017	\$34,678	\$34,152	50.7%	-1.5%	48.4%	17.8%	16.7%	21.7%	
Gloucester	\$14,175	\$24,340	\$10,901	71.7%	-55.2%	-23.1%	11.0%	11.7%	6.9%	
Ocean	\$1,021	\$3,115	\$1,631	204.9%	-47.6%	59.6%	0.8%	1.5%	1.0%	
Pinelands Counties	\$70,262	\$119,173	\$107,681	69.6%	-9.6%	53.3%	54.3%	57.4%	68.4%	
Non-Pinelands Counties	\$59,103	\$88,527	\$49,838	49.8%	-43.7%	-15.7%	45.7%	42.6%	31.6%	
New Jersey	\$129,367	\$207,700	\$157,519	60.6%	-24.2%	21.8%	100.0%	100.0%	100.0%	

Table E7d Net Cash Return per Farm (2004 Dollars)

	Net Ca	ash Return p	er Farm	Percentage Change			
County	1992	1997	2002	'92-'97	'97-'02	'92-'02	
Atlantic	\$35,610	\$41,568	\$61,485	16.7%	47.9%	72.7%	
Burlington	\$17,412	\$32,650	\$25,685	87.5%	-21.3%	47.5%	
Camden	\$13,650	\$44,321	\$18,495	224.7%	-58.3%	35.5%	
Cape May	\$8,136	\$15,347	\$28,325	88.6%	84.6%	248.1%	
Cumberland	\$37,734	\$60,414	\$55,441	60.1%	-8.2%	46.9%	
Gloucester	\$20,108	\$37,388	\$15,775	85.9%	-57.8%	-21.6%	
Ocean	\$4,400	\$13,197	\$7,584	199.9%	-42.5%	72.4%	
Pinelands Counties	\$22,621	\$38,480	\$32,620	70.1%	-15.2%	44.2%	
Non-Pinelands Counties	\$9,888	\$14,761	\$7,530	49.3%	-49.0%	-23.9%	
New Jersey	\$14,243	\$22,839	\$15,879	60.4%	-30.5%	11.5%	

Table E7e Farms with Net Losses

				Percentage of				
	Farm	s with Net Lo	sses	All Farms with Net Losses				
County	1992	1997	2002	1992	1997	2002		
Atlantic	162	227	197	41.4%	53.5%	43.2%		
Burlington	431	369	478	52.8%	43.1%	52.8%		
Camden	91	94	108	48.4%	44.5%	50.0%		
Cape May	75	75	111	46.0%	50.3%	56.3%		
Cumberland	219	248	314	36.0%	43.3%	51.0%		
Gloucester	337	286	513	47.9%	43.9%	74.1%		
Ocean	159	114	131	68.2%	48.5%	60.4%		
Pinelands	1,474	1,413	1,852	47.5%	45.6%	56.1%		
Counties	1,474	1,413	1,052	47.5%	45.0%	30.1%		
Non-Pinelands	3,375	3,582	4,265	56.5%	59.7%	64.4%		
Counties	3,375	3,362	4,265	36.3%	39.7%	04.476		
New Jersey	4,849	4,995	6,117	53.4%	54.9%	61.6%		



Avg Residential Property Tax Bill V Updated

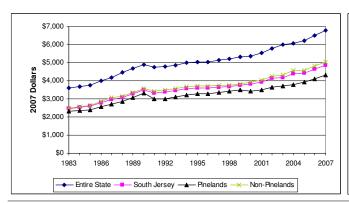


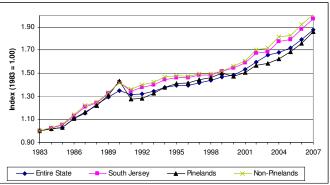
NJ Dept of Treasury, Division of Taxation 1983 - 1999 NJ Dept of Community Affairs, Div LGS 2000 - 2007

Average residential property tax bills in the Pinelands are 36% lower than the statewide average and 14% lower than the Non-Pinelands municipal average.

Average Residential Property Tax Bill

Index of Average Residential Property Tax Bill





Description: The average residential property tax bill measures the impact of property taxes on municipal residents. It is calculated by dividing the average residential property value by 100 and multiplying the result by the general tax rate. Values are adjusted for inflation and shown in 2006 dollars.

Unit of Analysis: Average residential property tax data are compiled at the municipal level and aggregated to allow for inside/outside Pinelands, regional, and statewide analyses.

Summary of Previous Findings

Average residential property tax bills in New Jersey demonstrated a gradual but steady pattern of increase throughout the 1980s. Following a large one-year decline in 1991, residential property taxes subsequently began a slow, continued increase from 1992-2006. The annual rate of change over the monitoring period was virtually the same for all geographic areas. By 1998, average residential tax bills in all areas surpassed their previous 1990 peaks. From 1998 to 2006, real tax rates increased by 28.6% for the Non-Pinelands versus just 20.1% for the Pinelands.

Update

The average residential property tax bill increased in the 4% to 6% range for all regions in 2007. Statewide, average residential property taxes rose 4.5%, while in South Jersey the increase was 4.8% for the year. However, within South Jersey, the Pinelands did have slightly higher tax increases than the Non-Pinelands. Pinelands communities registered an increase in average residential property taxes of 5.7% versus a 4.5% increase in the Non-Pinelands. However, the gap between the taxes paid in the Pinelands and other regions continues to be substantially wide in 2007. Average residential property taxes in the Pinelands are still \$699 lower than in the Non-Pinelands and \$2,461 lower than the state as a whole.

The average residential property tax bill in New Jersey, adjusted for inflation, has increased by 63% between 1987 and 2007, from \$4,173 to \$6,796. Within Southern New Jersey, the average Pinelands bill increased by 60% (from \$2,711 to \$4,335) while the average Non-Pinelands bill increased by 65% (from \$3,057 to \$5,034).

The rapidly growing second ring of suburbs surrounding the Philadelphia metropolitan area experienced the highest increases in average residential property taxes over the past 20 years. Smaller concentrations of increasing tax bills exist in Ocean County and along the shore. The southern, rural municipalities had the smallest increases in property taxes from 1987-2007.

From 2006 to 2007, 3 of the 47 Pinelands municipalities (6.4%) experienced real tax decreases (Table F1). In the remaining 155 municipalities that comprise the Non-Pinelands, 36 had real tax decreases from 2006 to 2007 (23.2%).

Table F1 Average Residential Property Tax Bill in the Pinelands

Municipality	County	Avg. Property Tax Bill 2007	Actual Change from 2006	% Change from 2006	South Jersey Rank 2007
Woodland	Burlington	\$4,661	\$1,102	31.0%	97
Buena	Atlantic	\$4,093	\$743	22.2%	134
Franklin	Gloucester	\$4,516	\$682	17.8%	105
Plumsted	Ocean	\$5,149	\$608	13.4%	72
Tabernacle	Burlington	\$6,603	\$584	9.7%	22
Shamong	Burlington	\$7,059	\$569	8.8%	19
New Hanover	Burlington	\$3,719	\$562	17.8%	152
Bass River	Burlington	\$3,702	\$448	13.8%	155
Waterford	Camden	\$5,446	\$430	8.6%	61
Washington	Burlington	\$3,422	\$421	14.0%	169
Eagleswood	Ocean	\$4,585	\$390	9.3%	103
Southampton	Burlington	\$4,701	\$388	9.0%	93
					78
Barnegat	Ocean	\$4,977	\$330	7.1%	
Folsom	Atlantic	\$2,990	\$315	11.8%	189
Egg Harbor Township	Atlantic	\$4,880	\$268	5.8%	82
Maurice River	Cumberland	\$3,159	\$263	9.1%	182
Wrightstown	Burlington	\$1,903	\$263	16.0%	197
Monroe	Gloucester	\$5,600	\$241	4.5%	53
Buena Vista	Atlantic	\$3,642	\$239	7.0%	156
Mullica	Atlantic	\$4,051	\$232	6.1%	136
Winslow	Camden	\$4,741	\$228	5.1%	90
Hammonton	Atlantic	\$4,371	\$227	5.5%	117
Hamilton	Atlantic	\$3,823	\$209	5.8%	147
Medford	Burlington	\$8,664	\$167	2.0%	6
South Toms River	Ocean	\$3,272	\$153	4.9%	178
Dennis	Cape May	\$2,439	\$145	6.3%	195
Port Republic	Atlantic	\$4,596	\$140	3.1%	102
Lacey	Ocean	\$4,436	\$136	3.2%	114
Egg Harbor City	Atlantic	\$4,673	\$131	2.9%	96
Ocean	Ocean	\$4,102	\$103	2.6%	132
Estell Manor	Atlantic	\$3,328	\$102	3.2%	173
Chesilhurst	Camden	\$3,562	\$99	2.9%	161
Pemberton Township	Burlington	\$3,237	\$88	2.8%	180
Little Egg Harbor	Ocean	\$3,951	\$86	2.2%	141
Manchester	Ocean	\$3,144	\$86	2.8%	183
Upper	Cape May	\$3,796	\$85	2.3%	149
Stafford	Ocean	\$5,089	\$81	1.6%	75
Berkeley	Ocean	\$3,365	\$63	1.9%	172
Evesham	Burlington	\$6,363	\$48	0.8%	27
Galloway	Atlantic	\$4,163	\$42	1.0%	131
Berlin Township		\$4,639	\$32	0.7%	99
Lakehurst	Camden Ocean			0.7%	
		\$3,625	\$30		158
Jackson	Ocean	\$5,892	\$17	0.3%	42
Weymouth	Atlantic	\$3,264	\$2	0.1%	179
Beachwood	Ocean	\$3,580	-\$53	-1.5%	160
Medford Lakes	Burlington	\$7,541	-\$60	-0.8%	12
Woodbine	Cape May	\$1,232	-\$393	-24.2%	200
"Outside Municipalities"					
Springfield	Burlington	\$7,256	\$1,767	32.2%	16
North Hanover	Burlington	\$5,117	\$903	21.4%	73
Corbin City	Atlantic	\$3,957	\$254	6.9%	140
Vineland	Cumberland	\$3,546	\$37	1.1%	162
Berlin Borough	Camden	\$5,661	-\$2	0.0%	50

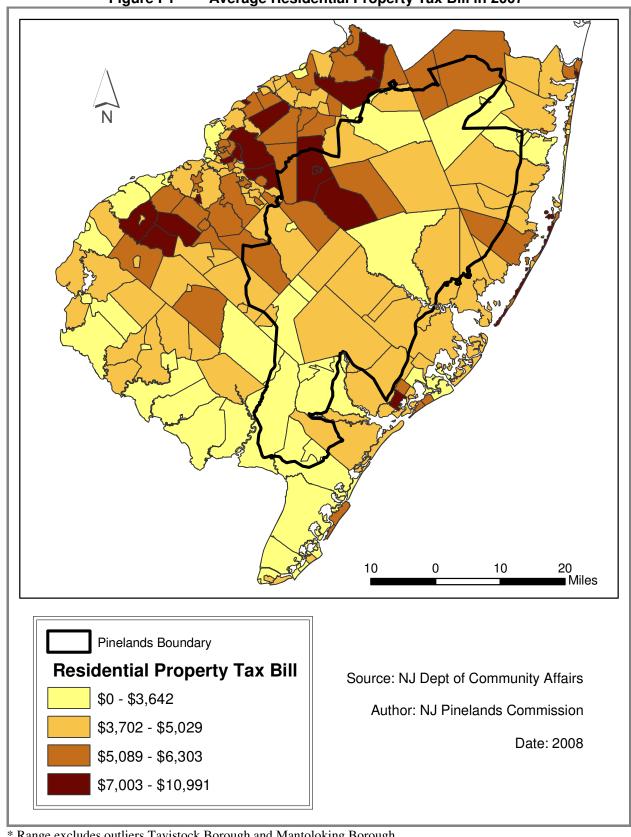
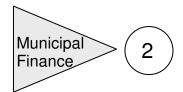


Figure F1 Average Residential Property Tax Bill in 2007*

^{*} Range excludes outliers Tavistock Borough and Mantoloking Borough.



State Equalized Valuation

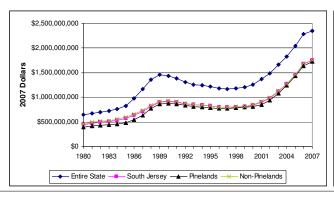


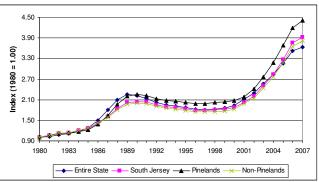
NJ Dept of Community Affairs, Div LGS 1980 - 1993 NJ Dept of Treasury, Division of Taxation 1994 – 2006

• Despite a slowdown in real estate activity in 2007, the average equalized property value increased modestly in all regions (Pinelands +5.2%, Non-Pines +4.4, Statewide +3.0%).

Average State Equalized Valuation (2006 Dollars)

Index of State Equalized Valuation





<u>Description</u>: Equalized property value is the total assessed value of all property in a municipality adjusted for different municipal assessment biases in order to make values across New Jersey municipalities comparable to one another. It is useful as a measurement of the wealth of one municipality relative to other municipalities. Values are adjusted for inflation and shown in 2006 dollars.

<u>Unit of Analysis</u>: State equalized valuation data are compiled at the municipal level and aggregated to allow for inside/outside Pinelands, regional, and statewide analyses.

Summary of Previous Findings

Equalized property valuation in New Jersey rose throughout the 1980s, with most of the growth concentrated in the latter part of the decade. Average municipal valuation in the Pinelands tracked closely with average valuation outside the Pinelands. While average valuation in the Pinelands was lower than average valuation outside of the Pinelands over the monitoring period, the gap progressively narrowed. Conversely, while average valuation in Southern New Jersey remained lower than average valuation in the entire State, the differential did not diminish over the monitoring period. Following a peak in 1989, statewide average valuation experienced a steeper decline than average valuation throughout Southern New Jersey. From 1990 to 1997, average equalized valuation declined across all areas of the State. This trend reversed after 1997 as average equalized property valuations rose between 1998 and 2006 in all regions.

Update

Although the gains were modest this year in comparison to previous years, the equalized property values rose in all regions of the state for the tenth consecutive year in 2007. This year, the increase in valuation for the Pinelands was slightly higher than in the Non-Pinelands (+5.2% versus +4.4%). The valuation for the average Pinelands municipality was \$1.72 billion in 2007, compared to an average of \$1.76 billion for the average Non-Pinelands municipality. The gap in valuation between the Pinelands and Non-Pinelands continues to narrow. In 1985, the average Non-Pinelands municipality valuation was 22.8% higher than the average Pinelands municipality. By 2007, that difference has almost evaporated; the average Non-Pinelands municipality valuation is now only 2.2% higher than in the Pinelands.

More populated municipalities tend to have higher equalized values, as more structures and higher densities push up property values. Per capita equalized values can be used to make more equal comparisons by accounting for the relative wealth of inhabitants for particular jurisdictions. Total 2007 equalized values were divided by 2006 population estimates for each region. The results show that the state has a higher equalized value per capita than Southern New Jersey (\$153,429 versus \$147,019), while the Pinelands region has a much lower per capita value compared to the Non-Pinelands region (\$118,389 versus \$158,385). The Pinelands municipalities exhibit a great deal of variation, with per capita values ranging from a high of \$203,226 in Washington to a low of \$9,479 in New Hanover (Table F2).

Table F2 Equalized Value and Equalized Value Per Capita 2007

County	Municipality	Population Est 2006	Equalized Value 2007*	Eq Value Per Capita*
Burlington	Washington	651	\$132,300,000	\$203,226
Ocean	Stafford	25,819	\$5,053,400,000	\$195,724
Cape May	Upper	11,363	\$2,179,400,000	\$191,798
Ocean	Eagleswood	1,614	\$302,100,000	\$187,175
Cape May	Dennis	5,907	\$1,028,800,000	\$174,166
Ocean	Ocean	8,241	\$1,390,300,000	\$168,705
Ocean	Lacey	26,300	\$4,364,200,000	\$165,939
Ocean	Little Egg Harbor	20,283	\$3,046,000,000	\$150,175
Ocean	Berkeley	42,577	\$6,354,900,000	\$149,257
Burlington	Medford	23,399	\$3,386,200,000	\$144,716
Ocean	Jackson	52,305	\$7,410,500,000	\$141,679
Atlantic	Egg Harbor Township	38,793	\$5,087,900,000	\$131,155
Burlington	Woodland	1,374	\$172,800,000	\$125,764
Burlington	Evesham	46,711	\$5,870,400,000	\$125,675
Atlantic	Estell Manor	1,720	\$213,400,000	\$124,070
Ocean	Barnegat	21,192	\$2,627,200,000	\$123,971
Burlington	Bass River	1,570	\$193,100,000	\$122,994
Atlantic	Port Republic	1,234	\$150,500,000	\$121,961
Ocean	Plumsted	8,122	\$972,900,000	\$119,786
Burlington	Southampton	11,028	\$1,309,400,000	\$118,734
Burlington	Shamong	6,873	\$799,700,000	\$116,354
Burlington	Medford Lakes	4,161	\$481,800,000	\$115,789
Burlington	Tabernacle	7,337	\$837,700,000	\$114,175
Ocean	Manchester	41,813	\$4,679,800,000	\$111,922
Atlantic	Hamilton	24,423	\$2,705,100,000	\$110,760
Atlantic	Galloway	36,205	\$3,914,400,000	\$108,118
Atlantic	Hammonton	13,572	\$1,466,500,000	\$108,053
Camden	Berlin Township	5,405	\$583,900,000	\$108,030
Atlantic	Mullica	6,080	\$600,000,000	\$98,684
Atlantic	Folsom	1,948	\$188,700,000	\$96,869
Ocean	Beachwood	10,744	\$1,033,800,000	\$96,221
Gloucester	Monroe	31,934	\$2,856,800,000	\$89,460
Gloucester	Franklin	16,853	\$1,455,700,000	\$86,376
Atlantic	Buena	3,804	\$316,400,000	\$83,176
Camden	Waterford	10,707	\$876,800,000	\$81,890
Atlantic	Buena Vista	7,487	\$582,500,000	\$77,802
Ocean	South Toms River	3,716	\$287,400,000	\$77,341
Camden	Winslow	38,612	\$2,928,000,000	\$75,831
Atlantic	Egg Harbor City	4,454	\$329,000,000	\$73,866
Ocean	Lakehurst	2,674	\$186,500,000	\$69,746
Cape May	Woodbine	2,508	\$166,900,000	\$66,547
Burlington	Pemberton Township	28,831	\$1,694,100,000	\$58,760
Atlantic	Weymouth	2,296	\$134,100,000	\$58,406
Burlington	Wrightstown	741	\$33,700,000	\$45,479
Camden	Chesilhurst	1,879	\$79,100,000	\$42,097
Cumberland	Maurice River	8,083	\$290,300,000	\$35,915
Burlington	New Hanover	9,479	\$84,100,000	\$8,872
"Outside" Municip		3,173	ψο 1, 100,000	Ψ0,072
Burlington	Springfield	3,570	\$482,000,000	\$135,014
Atlantic	Corbin City	530	\$67,500,000	\$127,358
Camden	Berlin Borough	7,910	\$794,600,000	\$100,455
Cumberland	Vineland	58,271		
	ı v II I C IAI IÜ	JO,∠/ I	\$4,111,600,000	\$70,560

^{*} Values have been rounded. Shown in current 2007 dollars.



Effective Tax Rate

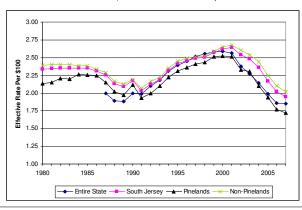


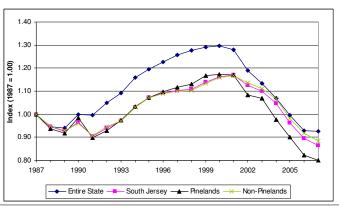
NJ Dept of Treasury, Division of Taxation 1994 - 2001 NJ Dept of Community Affairs, Div LGS 1980 - 93, 2002 - 07

• Effective tax rates continued their decline across all regions for the seventh consecutive year in 2007. Pinelands effective tax rates have fallen the most over that period (-32%).

Effective Tax Rate (Per \$100 State Equalized Valuation)

Index of Effective Tax Rate





<u>Description</u>: The effective tax rate measures the ratio of taxes to property value. The effective tax rate is the rate at which the municipality taxes the (equalized) assessed value of property, and is equal to the general property tax adjusted by the municipality's equalization ratio as calculated by the NJ Dept of the Treasury, Division of Taxation.

<u>Unit of Analysis</u>: Average effective tax rate data are compiled at the municipal level and aggregated to allow for inside/outside Pinelands, regional, and statewide analyses.

Summary of Previous Findings

Effective tax rates in all regions remained steady or increased slightly in the early 1980s before beginning a period of decline in 1986. Although statewide data were not available until 1987, statewide effective tax rates were below rates outside of the Pinelands, but surpassed rates inside of the Pinelands in 1991. Effective tax rates have gradually increased in all regions since the early 1990s and surpassed earlier highs set in the 1980s. Pinelands effective tax rates continue to remain lower than all other regions of New Jersey. Rates began falling in 2001 and continued to fall through 2006.

Update

Effective tax rates declined across all regions of the state for the seventh consecutive year in 2007. Statewide, New Jersey posted a decrease of 0.5% in effective tax rates in 2007, dropping from 1.86 in 2006 to 1.85 in 2007. In Southern New Jersey, effective tax rates fell 3.8% in the Non-Pinelands (from 2.10 to 2.02) and dropped 2.8% in the Pinelands (from 1.77 to 1.72). The decrease in effective tax rates is linked to an increase in home sale price and a corresponding increase in equalized property valuation. A detailed explanation of how effective tax rates are computed and the synergy between home sales price, equalized value, and effective tax rates can be found in the 2003 Annual Report.

Studies have suggested that effective tax rates above 3.00 indicate municipal fiscal stress.¹⁵ Currently, there are not any Pinelands municipalities with a rate higher than 3.00. By contrast, in the Non-Pinelands, 9 municipalities have effective tax rates above 3.00, which represents 5.8% of the Non-Pinelands municipalities. The majority of municipalities with rates above 3.00 are clustered in Camden County (Figure F3).

¹⁵ See "The Property Tax Trouble Zone Moves Beyond Big Cities" by Coleman, New Jersey Municipalities, Dec 2002, p. 66-69

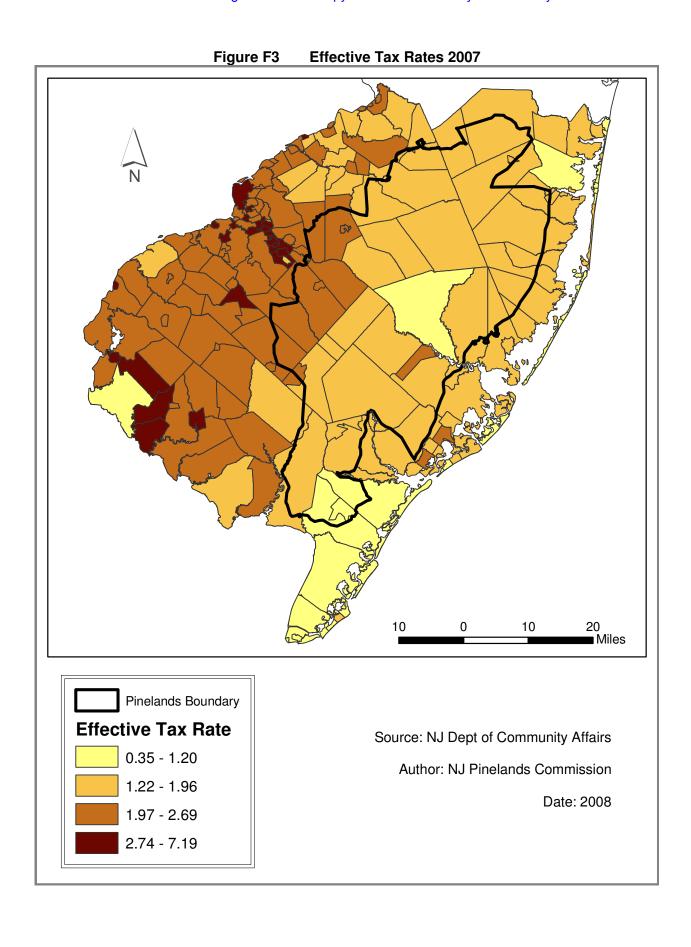
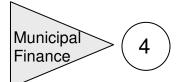


Table F3 Effective Tax Rates 2007

Municipality	County	Effective Tax Rate	South Jersey Rank
Berlin Township	Camden	2.615	35
Waterford	Camden	2.539	38
Medford Lakes	Burlington	2.459	45
Monroe	Gloucester	2.397	51
Chesilhurst	Camden	2.381	55
Winslow	Camden	2.323	61
Egg Harbor City	Atlantic	2.258	70
Medford	Burlington	2.256	72
Buena	Atlantic	2.117	89
Evesham	Burlington	2.072	96
Franklin	Gloucester	2.011	104
Tabernacle	Burlington	1.945	108
Weymouth	Atlantic	1.938	110
Maurice River	Cumberland	1.914	112
Buena Vista	Atlantic	1.897	113
Shamong	Burlington	1.884	114
Southampton	Burlington	1.849	119
Hammonton	Atlantic	1.842	120
Pemberton Township	Burlington	1.759	125
Hamilton	Atlantic	1.75	126
Mullica	Atlantic	1.711	131
Egg Harbor Township	Atlantic	1.704	132
Barnegat	Ocean	1.693	134
Wrightstown	Burlington	1.69	135
Galloway	Atlantic	1.66	138
Lakehurst	Ocean	1.653	139
Woodland	Burlington	1.615	140
New Hanover	Burlington	1.554	142
Jackson	Ocean	1.537	143
Port Republic	Atlantic	1.494	145
South Toms River	Ocean	1.494	146
Plumsted	Ocean	1.482	149
Eagleswood	Ocean	1.444	153
Stafford	Ocean	1.437	154
Little Egg Harbor	Ocean	1.416	155
Folsom	Atlantic	1.402	156
Estell Manor	Atlantic	1.361	159
Beachwood	Ocean	1.352	160
Manchester	Ocean	1.338	161
Lacey	Ocean	1.327	162
Bass River	Burlington	1.326	163
Berkeley	Ocean	1.303	165
Ocean	Ocean	1.273	168
Upper	Cape May	1.145	171
Woodbine	Cape May	1.067	175
Dennis	Cape May	1.057	176
Washington	Burlington	1.054	176
"Outside" Municipalities	parington	1.004	111
Berlin Borough	Camden	2.204	78
Springfield	Burlington	2.204	100
Vineland	Cumberland	1.87	117
	Burlington	1.491	147
North Hanover			
Corbin City	Atlantic	1.462	152

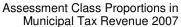


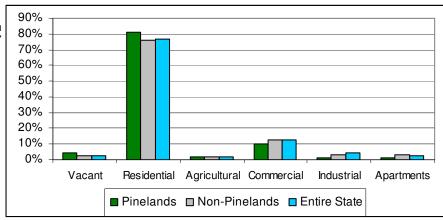
Assessment Class Proportions in Municipal Tax Revenues



NJ Dept of Community Affairs, Div LGS 1980 – 1996, 2002 - 2007

 The vacant land category in the Pinelands has declined from 11.2% of total assessment in 1986 to 4.6% in 2006. Over the same period, the residential category has increased 8.7%.





<u>Description</u>: The relative contribution of the different assessment classes (e.g., commercial, residential, and vacant land) to the tax revenue of each municipality measures the reliance of the municipality on different types of land uses for tax revenues.

<u>Unit of Analysis</u>: Data for assessment class proportions are compiled at the municipal level and aggregated to allow for inside/outside Pinelands, regional, and statewide analyses.

Summary of Previous Findings

The Department of Community Affairs once again began compiling this data in 2004. Because a complete time series is still unavailable, this section examines changes in assessment class proportions using ten-year intervals of 1986, 1996, and 2006. Since land use changes of any magnitude evolve rather slowly, it is appropriate to look at changes over such larger periods as opposed to annual reviews.

Update

The Pinelands has a slightly higher percentage of assessed property in the vacant and residential categories than the Non-Pinelands, and has generally had lower percentages in the remaining categories compared to the Non-Pinelands, particularly in the industrial and apartment categories. The predominant trend in the Pinelands is the decrease in the vacant assessment category as a percentage of total assessment and an increase in the residential category. Vacant land comprised 11.2% of total Pinelands assessed value in 1986, but dropped to 8.0% in 1996 and declined even further to 4.6% in 2006. Possible explanations include the development of vacant land, an increase in the value of developed land at a higher rate than that of vacant land, and/or a decrease in the value of vacant land. Meanwhile, the percent total of residential land increased from 70.7% in 1986, to 74.1% in 1996, to 79.4% in 2006. The percentage of assessment in agricultural and commercial land has remained relatively steady between 1996 and 2006, while the percentage of industrial assessed value has decreased.

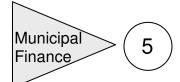
As of 2007, the Pinelands municipalities of Medford Lakes, Beachwood, Tabernacle, Berkeley, Shamong, and Port Republic have the highest percentage of assessed value in the residential category (above 90%) in the Pinelands. Wrightstown and Berlin Township have the lowest percentage of assessed value in the residential category (below 60%).

 Table F4a
 Assessment Class Proportions in Municipal Valuations

	1986	1996	2006	Change from 1986 - 2006
Pinelands				
Vacant	11.2%	8.0%	4.6%	-6.6%
Residential	70.7%	74.1%	79.4%	8.7%
Agricultural	3.3%	2.2%	2.0%	-1.3%
Commercial	10.6%	11.7%	11.0%	0.4%
Industrial	2.1%	2.4%	1.6%	-0.6%
Apartments	2.0%	1.6%	1.4%	-0.5%
Non-Pinelands				
Vacant	4.1%	3.4%	2.7%	-1.4%
Residential	69.0%	72.1%	75.5%	6.5%
Agricultural	4.3%	3.1%	2.1%	-2.2%
Commercial	14.0%	13.5%	13.2%	-0.8%
Industrial	4.6%	4.4%	3.5%	-1.2%
Apartments	3.2%	2.8%	2.9%	-0.3%
State				
Vacant	4.0%	3.3%	2.2%	-1.8%
Residential	66.8%	70.0%	74.8%	8.1%
Agricultural	1.1%	0.9%	0.8%	-0.3%
Commercial	15.7%	15.9%	14.8%	-1.0%
Industrial	8.4%	7.1%	4.6%	-3.8%
Apartments	4.0%	2.9%	2.8%	-1.2%

Table F4b Assessment Class Proportions for Pinelands Municipalities - 2007

Municipality	County	Vacant	Residential	Agricultural	Commercial	Industrial	Apartments
Medford Lakes	Burlington	0.3%	97.8%	0.0%	1.9%	0.0%	0.0%
Beachwood	Ocean	2.2%	94.3%	0.0%	3.3%	0.0%	0.2%
Tabernacle	Burlington	1.6%	93.2%	2.5%	2.7%	0.1%	0.0%
Shamong	Burlington	1.3%	92.7%	3.7%	2.0%	0.3%	0.0%
Berkeley	Ocean	1.9%	92.3%	0.0%	4.5%	0.4%	0.9%
Port Republic	Atlantic	3.7%	91.7%	1.5%	3.2%	0.0%	0.0%
Little Egg Harbor	Ocean	5.2%	90.0%	0.1%	4.7%	0.0%	0.1%
Ocean	Ocean	6.5%	88.3%	0.2%	4.9%	0.1%	0.0%
Medford	Burlington	1.1%	87.2%	1.2%	8.4%	0.5%	1.7%
Pemberton Township	Burlington	2.3%	87.0%	1.6%	6.5%	0.5%	2.2%
Waterford	Camden	2.5%	86.5%	2.3%	8.0%	0.3%	0.5%
Stafford	Ocean	3.9%	86.5%	0.0%	9.5%	0.0%	0.1%
Winslow	Camden	2.8%	86.4%	1.4%	6.0%	1.4%	2.1%
Lacey	Ocean	2.4%	86.3%	0.1%	7.3%	3.8%	0.1%
Jackson	Ocean	3.2%	86.2%	0.4%	8.5%	0.6%	1.0%
Mullica	Atlantic	5.4%	85.8%	2.3%	5.5%	0.9%	0.2%
Chesilhurst	Camden	8.3%	85.1%	0.0%	5.1%	1.0%	0.5%
Southampton	Burlington	2.0%	85.0%	5.6%	6.6%	0.9%	0.0%
Plumsted	Ocean	3.4%	84.9%	4.9%	5.6%	0.8%	0.4%
Upper	Cape May	5.2%	84.8%	0.5%	8.3%	1.2%	0.1%
Monroe	Gloucester	3.2%	84.4%	1.1%	9.8%	0.4%	1.1%
Estell Manor	Atlantic	8.6%	84.1%	2.5%	2.9%	1.4%	0.6%
Barnegat	Ocean	8.4%	84.0%	0.1%	5.7%	0.3%	1.6%
South Toms River	Ocean	2.4%	83.7%	0.0%	13.8%	0.1%	0.0%
Franklin	Gloucester	3.8%	83.6%	4.4%	7.9%	0.0%	0.3%
Galloway	Atlantic	3.3%	83.2%	0.7%	10.1%	0.6%	2.1%
Weymouth	Atlantic	5.9%	82.0%	0.3%	10.0%	0.2%	1.5%
Lakehurst	Ocean	1.9%	82.0%	0.0%	15.8%	0.0%	0.3%
Maurice River	Cumberland	6.5%	80.3%	2.3%	5.5%	5.1%	0.3%
Evesham	Burlington	0.7%	79.3%	0.3%	15.4%	0.7%	3.8%
Buena Vista	Atlantic	6.2%	79.2%	4.2%	8.2%	2.3%	0.0%
Dennis	Cape May	6.3%	78.2%	1.6%	14.0%	0.0%	0.0%
Egg Harbor City	Atlantic	2.7%	77.9%	0.0%	14.3%	2.8%	2.3%
Manchester Manchester	Ocean	2.7%	77.5%	0.1%	6.6%	0.5%	12.7%
Bass River	Burlington	6.6%	76.9%	2.7%	13.9%	0.0%	0.0%
Buena	Atlantic	3.3%	75.3%	6.7%	10.2%	1.8%	2.8%
Washington	Burlington	3.9%	75.2%	6.9%	12.1%	1.9%	0.0%
Egg Harbor Township		6.6%	74.5%	0.1%	18.4%	0.0%	0.4%
Woodland	Burlington	5.8%	74.5%	10.7%	3.5%	5.5%	0.0%
Folsom	Atlantic	4.4%	74.0%	1.7%	9.8%	10.1%	0.0%
Woodbine	Cape May	5.1%	73.5%	2.7%	13.1%	2.7%	2.9%
Hammonton	Atlantic	2.4%	73.4%	2.9%	17.7%	2.6%	1.0%
Eagleswood	Ocean	15.7%	70.8%	0.1%	11.9%	1.4%	0.2%
New Hanover	Burlington	4.1%	67.8%	5.9%	22.0%	0.2%	0.2%
Hamilton	Atlantic	5.5%	66.4%	0.6%	22.7%	1.3%	3.5%
Berlin Township	Camden	3.2%	51.2%	0.1%	35.1%	9.3%	1.2%
Wrightstown	Burlington	3.8%	44.8%	0.1%	37.3%	1.0%	13.2%
"Outside" Munis	Darnington	J.O /o	77.0/0	0.0 /0	37.3/0	1.0/0	10.2/0
Corbin City	Atlantic	6.0%	85.0%	0.9%	8.2%	0.0%	0.0%
Berlin Borough	Camden	2.8%	80.5%	0.9%	14.2%	1.6%	0.0%
•	1						
Springfield	Burlington	1.7%	75.8%	12.1%	10.4%	0.0%	0.0%
North Hanover	Burlington	2.2%	72.8%	9.2%	12.7%	0.0%	3.2%
Vineland	Cumberland	1.8%	69.8%	1.7%	18.2%	5.9%	2.6%



Local Municipal Purpose Revenues

NJ Dept of Community Affairs, Div LGS 1998 - 2007 Individual SJ County Tax Divisions 1995 - 1997



 After remaining relatively stable over the past decade, total municipal budgets dropped by 15% across all regions in 2007. This was due primarily to a decrease in miscellaneous revenues, while local municipal purpose revenues increased modestly.

	Local Municipal Budget*	Budget Per Capita	Population Estimate	State Aid	State Aid Per Capita
Pinelands 1997	\$438,974,154	\$735	597,454	NA	NA
Pinelands 2007	\$462,516,177	\$677	682,822	\$107,491,713	\$157
Change	5.4%	-7.8%	14.3%	NA	NA
Non-Pinelands 1997	\$1,727,137,683	\$1,065	1,622,388	NA	NA
Non-Pinelands 2007	\$1,795,477,588	\$1,044	1,719,934	\$306,455,496	\$178
Change	4.0%	-1.9%	6.0%	NA	NA

^{* =} Local Municipal Purposes + Total of Miscellaneous Revenues. Does not include school budget.

<u>Description</u>: Per capita revenues provide insight into the level or amount of service a municipality can provide. Money budgeted for local municipal purposes is used for maintaining all services within a municipality other than schools or infrastructure maintained by the county or state (such as roads). Local municipal purpose monies are raised largely through property taxes. Miscellaneous revenues have been added to local purpose monies and include: surplus revenues apportioned, receipts from delinquent taxes and liens, and other miscellaneous revenues anticipated such as user or license fees. Per capita rates were calculated by using: intercensal estimates from 1995 to 1999, the 2000 Census, and municipal estimates for 2001 to 2006. The population estimate for 2006 was used to calculate per capita figures for 2007, as 2007 municipal estimates were not available when this report was prepared. Per capita figures for 2007 may be slightly inflated as a result of using the 2006 population estimate.

<u>Unit of Analysis</u>: Municipal level data are aggregated to allow for inside/outside Pinelands analysis. Aggregates are sums, not averages.

Summary of Previous Findings

As a whole, the local municipal budgets of Pinelands municipalities increased faster than the Non-Pinelands from 1995 to 2006. The Pinelands municipal budget increased by 26% during this period, compared to 18% for the Non-Pinelands. Within the local budget, monies raised through local municipal purposes increased substantially (by 71% in the Pinelands and 32% in the Non-Pinelands). Monies raised through miscellaneous revenues increased slightly in the Pinelands (+4%) while the Non-Pinelands enjoyed an increase of 6% during the same time frame.

While municipal revenues increased both inside and outside the Pinelands from 1995 to 2006, the amount of revenue collected per person has risen only modestly. As a whole, the Pinelands municipalities collected \$740 in municipal revenues per capita in 1995 and \$799 per capita in 2006, an increase of 8.0%. The Non-Pinelands municipalities collected \$1,082 per capita in 1995 versus \$1,189 in 2006, an increase of 9.8%. The increase in revenues corresponds with population increases. As the population increases, the ability and need to raise additional revenues increases. Per capita revenues have remained rather constant, as additional citizens require additional services, which require additional expenditures. It is interesting to note that the increase in per capita revenues has not been consistent over time. Per capita revenues declined slightly in both the Pinelands and Non-Pinelands from 1995 through 2001. Per Capita revenues did not surpass 1995 levels until 2002 in the Non-Pinelands and 2003 in the Pinelands (Table F5a).

From 1995-2006, the Pinelands municipalities collected approximately \$360 less per person annually compared to the Non-Pinelands. This difference is due to the fact that the Pinelands has lower tax rates than the Non-Pinelands (see sections F1 through F3) and because Pinelands municipalities tend to offer less in terms of municipal services. For example, the percentage of Pinelands municipalities that have no local police force is about twice that of Non-Pinelands municipalities (30% in the Pines vs. 15% in the Non-Pines).

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Municipalities also rely on the state for aid to supplement local revenues. The earliest year available for state aid figures (in digital format) was 1999. From 1999-2006, state aid decreased by 9% to Pinelands municipalities and by 8% to Non-Pinelands municipalities. Per capita rates decreased by 19% in the Pines and 13% in the Non-Pines. While there is quite a gulf between Pinelands and Non-Pinelands municipalities in terms of municipal revenues per capita, the difference between the regions is much smaller in relation to the amount of state aid per capita. The Non-Pinelands region received 17% more in aid per capita than did the Pinelands area in 2006.

There has been a large degree of variation among the Pinelands municipalities in terms of local municipal revenues and state aid. Between 1995 and 2006, municipal revenues ranged from a high of approximately \$2,800 to a low of \$220 in the Pinelands. Similarly, state aid figures in the Pinelands have ranged from a high of approximately \$700 to a low of \$80 annually during the period.

When per capita revenues and per capita state aid are viewed as averages (average per capita figures for all municipalities within a region, as opposed to a per capita figure for the entire region), different patterns emerge. When compared as regions (using aggregates illustrated in Table F5a), the Pinelands have had lower per capita revenue and received slightly less state aid per capita than the Non-Pinelands. When municipal averages for each of the aggregates are compared, the Pinelands has had substantially lower per capita revenue and received more state aid per capita compared to the Non-Pinelands over the period 1995-2006.

Update

The total municipal budgets for the Pinelands municipalities decreased by 15.2 % in 2007, while the total municipal budget for the Non-Pinelands municipalities dropped by 12.2% for the year. The large drop is due almost entirely to a uniform drop in miscellaneous revenues in both regions. Miscellaneous revenue dropped 33% in the Pinelands and 28% in the Non-Pinelands in 2007. When examined on a per capita basis, the Non-Pinelands municipal budgets are 54% higher than those in the Pinelands (\$1,044 in the Non-Pines versus \$677 in the Pinelands).

Total municipal state aid decreased 2.5% in the Pinelands while falling by 2.7% in the Non-Pinelands in 2007. For the period 1999-2007, the Pinelands municipalities have had both a smaller percentage increase in their per capita municipal budget and a larger percentage decrease in per capita state aid than the Non-Pinelands municipalities (Table F5a).

Among Pinelands municipalities, there were only two who increased their municipal budget by more than 10% in 2007: Wrightstown(+18.1%) and Buena (+11.7%). In contrast, seven Pinelands municipalities decreased their total municipal budget by more than 30%: Bass River (-59.1%), Shamong (-41.6%), Maurice River (-41.2%), New Hanover (-40.2%), Port Republic (-39.2%), Estell Manor (-36.0%), and Plumsted (-30.9%). For the second straight year, most Pinelands municipalities saw their state aid numbers frozen. In real terms, after factoring in inflation, there was a uniform decrease in state aid of about 2.2% across the Pinelands (and across most of the state for that matter).

Table F5a Local Municipal Purpose Revenues and State Aid for Pinelands and Non-Pinelands Regions (In 2007 \$s)

Region	Year	Local Municipal Purposes	Misc Revenues	Total Municipal Budget	Budget Per Capita	Population Estimate	State Aid	Aid Per Capita
Pines	1995	\$146,565,314	\$285,612,485	\$432,177,800	\$740	584,232		
Pines	1996	\$151,163,727	\$283,228,734	\$434,392,462	\$734	591,420		
Pines	1997	\$155,945,934	\$283,028,219	\$438,974,154	\$735	597,454		
Pines	1998	\$161,373,551	\$282,256,797	\$443,630,348	\$733	604,928		
Pines	1999	\$168,784,692	\$276,056,833	\$444,841,525	\$728	610,785	\$120,735,668	\$198
Pines	2000	\$172,044,397	\$274,200,170	\$446,244,567	\$724	615,984	\$117,567,255	\$191
Pines	2001	\$184,947,846	\$280,219,260	\$465,167,106	\$738	630,550	\$120,731,584	\$191
Pines	2002	\$192,866,816	\$283,839,836	\$476,706,651	\$740	643,787	\$113,750,496	\$177
Pines	2003	\$205,415,677	\$279,556,288	\$484,971,965	\$737	657,971	\$117,639,724	\$179
Pines	2004	\$219,012,611	\$280,257,043	\$499,269,654	\$744	670,666	\$112,149,352	\$167
Pines	2005	\$231,755,900	\$292,463,631	\$524,219,531	\$775	675,977	\$113,402,264	\$168
Pines	2006	\$250,023,500	\$295,719,738	\$545,743,238	\$799	682,822	\$109,857,098	\$161
Pines	2007	\$263,252,630	\$199,263,548	\$462,516,177	\$677	682,822	\$107,491,713	\$157
NonPines	1995	\$789,210,917	\$943,168,812	\$1,732,379,729	\$1,082	1,601,776		
NonPines	1996	\$789,687,494	\$932,215,271	\$1,721,902,765	\$1,068	1,612,610		
NonPines	1997	\$791,523,455	\$935,614,228	\$1,727,137,683	\$1,065	1,622,388		
NonPines	1998	\$804,071,000	\$957,664,075	\$1,761,735,076	\$1,080	1,630,733		
NonPines	1999	\$820,769,642	\$937,172,317	\$1,757,941,959	\$1,073	1,639,053	\$344,412,814	\$210
NonPines	2000	\$819,971,515	\$945,251,003	\$1,765,222,518	\$1,071	1,647,532	\$337,180,242	\$205
NonPines	2001	\$815,880,298	\$944,261,328	\$1,760,141,625	\$1,06 0	1,660,123	\$340,314,946	\$205
NonPines	2002	\$861,682,419	\$963,063,160	\$1,824,745,579	\$1,087	1,678,078	\$340,989,138	\$203
NonPines	2003	\$897,267,092	\$956,915,932	\$1,854,183,024	\$1,095	1,692,777	\$329,775,790	\$195
NonPines	2004	\$936,172,677	\$1,006,408,095	\$1,942,580,773	\$1,138	1,706,338	\$326,151,670	\$191
NonPines	2005	\$993,069,538	\$1,047,440,159	\$2,040,509,697	\$1,192	1,711,841	\$323,131,662	\$189
NonPines	2006	\$1,044,984,922	\$999,430,325	\$2,044,415,247	\$1,189	1,719,934	\$315,396,793	\$183
NonPines	2007	\$1,073,547,305	\$721,930,283	\$1,795,477,588	\$1,044	1,719,934	\$306,455,496	\$178

Total Budget Per Capita Pinelands Versus Non-Pinelands

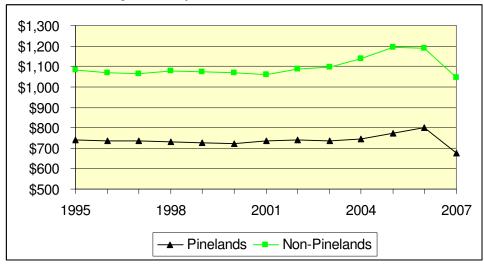


Table F5b Local Municipal Purpose Revenues and State Aid for Pinelands Municipalities in 2007

County	Municipality	Population Est 2005	Municipal Budget*	State Aid	Budget Per Capita	Aid Per Capita
Burlington	Washington	651	\$1,413,110	\$156,800	\$2,171	\$241
Burlington	Wrightstown	741	\$1,471,409	\$543,449	\$1,986	\$733
Burlington	Woodland	1,374	\$2,078,412	\$699,104	\$1,513	\$509
Atlantic	Egg Harbor City	4,454	\$5,732,212	\$679,456	\$1,287	\$153
Ocean	Stafford	25,819	\$30,734,388	\$3,589,656	\$1,190	\$139
Camden	Berlin Township	5,405	\$6,426,100	\$1,659,556	\$1,189	\$307
Camden	Chesilhurst	1,879	\$2,187,597	\$906,618	\$1,164	\$483
Ocean	Lakehurst	2,674	\$2,922,969	\$454,764	\$1,093	\$170
Cape May	Woodbine	2,508	\$2,569,258	\$475,285	\$1,024	\$190
Ocean	Eagleswood	1,614	\$1,462,913	\$275,137	\$906	\$170
Atlantic	Buena	3,804	\$3,310,235	\$660,869	\$870	\$174
Ocean	Ocean	8,241	\$6,945,516	\$887,999	\$843	\$108
Burlington	Medford Lakes	4,161	\$3,448,966	\$462,826	\$829	\$111
Gloucester	Monroe	31,934	\$25,708,059	\$5,765,483	\$805	\$181
Ocean	Little Egg Harbor	20,283	\$16,264,390	\$1,852,094	\$802	\$91
Ocean	Berkeley	42,577	\$33,603,173	\$5,918,353	\$789	\$139
Camden	Waterford	10,707	\$8,314,910	\$1,605,883	\$777	\$150
Ocean	Lacey	26,300	\$20,012,846	\$12,479,863	\$761	\$475
Cape May	Upper	11,363	\$8,406,140	\$6,857,647	\$740	\$604
Atlantic	Hamilton	24,423	\$18,061,850	\$3,891,761	\$740	\$159
Ocean	South Toms River	3,716	\$2,716,629	\$494,797	\$731	\$133
Atlantic	Egg Harbor Township	38,793	\$27,214,418	\$7,349,476	\$702	\$189
Atlantic	Hammonton	13,572	\$9,467,428	\$1,772,405	\$698	\$131
Burlington	Pemberton Township	28,831	\$19,870,348	\$3,923,512	\$689	\$136
Ocean	Barnegat	21,192	\$14,596,292	\$1,496,237	\$689	\$71
Ocean	Beachwood	10,744	\$7,262,905	\$993,445	\$676	\$92
Atlantic	Mullica	6,080	\$4,087,214	\$736,372	\$672	\$121
Burlington	Medford	23,399	\$15,504,910	\$2,870,994	\$663	\$123
Ocean	Manchester	41,813	\$26,563,366	\$4,354,544	\$635	\$104
Atlantic	Port Republic	1,234	\$782,005	\$226,933	\$634	\$184
Ocean	Jackson	52,305	\$32,636,560	\$4,755,233	\$624	\$91
Cape May	Dennis	5,907	\$3,585,756	\$1,804,026	\$607	\$305
Atlantic	Folsom	1,948	\$1,179,936	\$277,501	\$606	\$142
Camden	Winslow	38,612	\$22,564,550	\$8,217,538	\$584	\$213
Gloucester	Franklin	16,853	\$9,130,120	\$2,045,397	\$542	\$121
Burlington	Evesham	46,711	\$24,321,134	\$4,558,728	\$521	\$98
Atlantic	Galloway	36,205	\$18,771,687	\$3,794,949	\$518	\$105
Atlantic	Weymouth	2,296	\$1,126,816	\$382,950	\$491	\$167
Atlantic	Estell Manor	1,720	\$835,301	\$264,445	\$486	\$154
Atlantic	Buena Vista	7,487	\$3,449,303	\$995,056	\$461	\$133
Burlington	Southampton	11,028	\$4,625,679	\$1,688,448	\$419	\$153
Burlington	Bass River	1,570	\$646,000	\$321,264	\$411	\$205
Burlington	Tabernacle	7,337	\$2,976,246	\$817,917	\$406	\$111
Ocean	Plumsted	8,122	\$2,444,408	\$729,691	\$301	\$90
Cumberland	Maurice River	8,083	\$2,266,322	\$963,560	\$280	\$119
Burlington	Shamong	6,873	\$1,581,314	\$724,042	\$230	\$105
Burlington	New Hanover	9,479	\$1,235,077	\$1,109,650	\$130	\$117
"Outside" Mu		0, 770	ψ1,200,011	ψ1,100,000	ψ.00	Ψιιι
Cumberland	Vineland	58,271	\$52,433,322	\$8,409,312	\$900	\$144
Burlington	Springfield	3,570	\$2,732,944	\$620,672	\$766	\$174
Camden	Berlin Borough	7,910	\$5,219,905	\$1,072,196	\$660	\$17 4 \$136
Atlantic	Corbin City	530	\$313,705	\$79,542	\$592	\$150 \$150
	·					
Burlington	North Hanover	7,577	\$2,380,331	\$1,177,238	\$314	\$15

^{*} Municipal budget = Local Municipal Purpose Revenues + Miscellaneous Revenue

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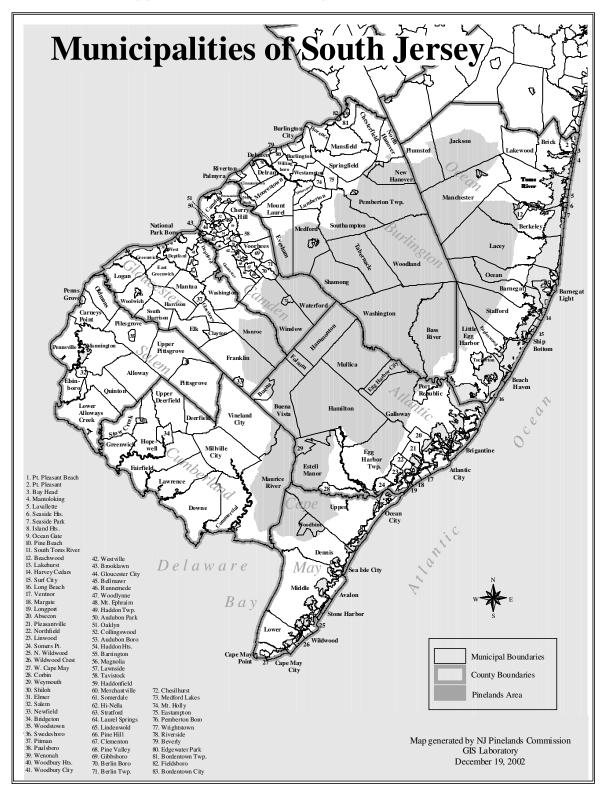
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Appendix B. Pinelands and Non-Pinelands Acreage by County

County	Total Acreage	Acreage Inside the Pinelands	Acreage Outside the Pinelands	Proportion in the Pinelands	County Pinelands Acreage as a % of Total Pinelands Acreage	County Acreage as a Share of Total South Jersey Acreage
Atlantic	391,134	247,877	143,257	63.4%	26.4%	17.3%
Burlington	524,166	334,187	189,979	63.8%	35.6%	23.1%
Camden	145,593	54,915	90,678	37.7%	5.9%	6.4%
Cape May	182,633	34,807	147,826	19.1%	3.7%	8.1%
Cumberland	321,645	45,356	276,289	14.1%	4.8%	14.2%
Gloucester	215,616	33,580	182,036	15.6%	3.6%	9.5%
Ocean	485,569	187,490	298,079	38.6%	20.0%	21.4%
Total	2,266,357	938,212	1,328,145	41.4%	100.0%	100.0%

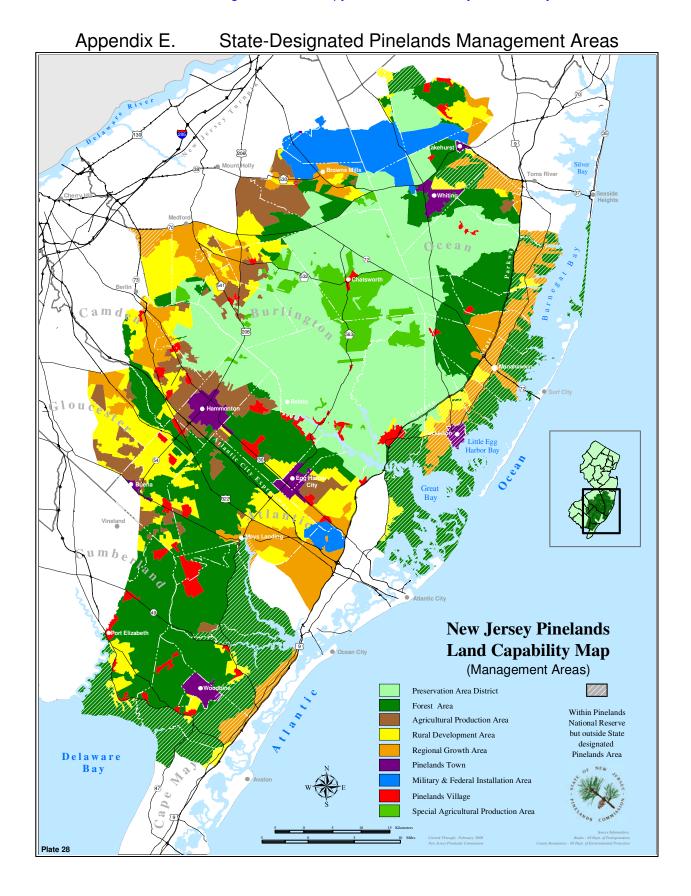
Source: NJ DEP Land Use / Land Cover data 1995/97

Appendix C. Municipalities of South Jersey



Appendix D Pinelands Management Areas

Managament Areas	Description	Permitted Uses			
Management Areas	Description	Residential	Non-residential		
Preservation Area District	Core of the Pinelands environment and the most critical ecological region; a large, contiguous wilderness area of forest which supports diverse plant and animal communities, many of which are threatened and endangered species.	None except 1 acre lots in designated infill areas	Limited commercial uses in designated infill areas		
Special Agricultural Production Area	Discrete areas within the Preservation Area primarily used for berry agriculture and horticulture of native Pinelands plants.	Farm-related housing on 40 acres	Expansion of existing uses only		
Forest Area	Similar to the Preservation Area District in terms of ecological value; a largely undeveloped area which is an essential element of the Pinelands environment, contains high quality water resources and wetlands and provides suitable habitat for many threatened and endangered species.	5 acre minimum. Historical development average has been 1 unit per 28 acres	Roadside retail within 300 feet of pre-existing use		
Agricultural Production Area	Areas of active agricultural use, generally upland field agriculture and row crops, together with adjacent areas with soils suitable for expansion of agricultural operations.	Farm-related housing on 10 acres, non-farm housing on 40 acres	Agricultural commercial; roadside retail within 300 feet of pre-existing use		
Rural Development Area	Areas which are slightly modified and suitable for limited future development; represents a balance of environmental and development values that is intermediate between Forest Areas and existing growth areas.	Historical development average has been 1 unit per 5 acres	Small scale community commercial and light industrial uses on septic systems		
Pinelands Village	Small, existing, spatially discrete settlements which are appropriate for infill residential, commercial, and industrial development compatible with their existing character.	1 to 5 acre lots if not sewered	Commercial and industrial uses compatible with existing character		
Pinelands Town	Large, existing spatially discrete settlements.	2 to 4 homes per acre with sewers	Commercial and industrial uses		
Regional Growth Area	Areas of existing growth and adjacent lands capable of accommodating regional growth influences while protecting the essential character and environment of the Pinelands	2 to 4 homes per acre with sewers	Commercial and industrial uses		
Military and Federal Installation Area	Federal enclaves within the Pinelands.	Not Applicable	Uses associated with function of the installation or other public purpose uses		



Appendix F

