New Jersey Pinelands Commission Long-Term Economic Monitoring Program

2005 Annual Report



Betty Wilson, Chair

John C. Stokes, Executive Director

November 2005

NEW JERSEY PINELANDS LONG-TERM ECONOMIC MONITORING PROGRAM 2005 ANNUAL REPORT

November 2005

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Acknowledgments

The 2005 Annual Report of the Pinelands Long-Term Economic Monitoring Program was prepared by Pinelands Commission economist Tony O'Donnell.

The Pinelands Commission gratefully acknowledges the help of its technical advisors in guiding the Long-Term Economic Monitoring Program. The technical advisory committee currently includes the following:

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The report will be available for review on the Pinelands Commission's web site at <u>http://www.state.nj.us/pinelands</u>. 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:

The Pinelands Commission P.O. Box 7 New Lisbon, NJ 08064

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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 1980. 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 forty-seven municipalities that have at least ten percent 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 2003 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 42,000 between 2000 and 2003, an increase of 6.8% (compared to an increase of 2.7% 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.

Results in the area of property values and residential development reflect the healthy, national real estate market in 2004. On average, more building permits continue to be issued in Pinelands municipalities than all other regions of the state. However, building permit activity decreased in the Pinelands in 2004 while increasing in the Non-Pinelands for the year. This marked the first time in the monitoring period that such a pattern emerged. Closer examination of the data reveals that this decline in activity was not uniform across the region, but rather the result of large decreases in a few big contributors (specifically Jackson, Hamilton, Egg Harbor Township, and Barnegat). 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 increased dramatically in 2004, posting double-digit percentage gains in all regions for the year. Transactions in the Pinelands again increased at a higher rate than the Non-

Pinelands, and the Pinelands share of Southern New Jersey's total transactions has increased by three percent since 1999. 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 increased substantially again this year, with the Pinelands recording its highest percent change in the monitoring period (since 1989). The median sales price was only slightly (2%) lower in the Pinelands than in the Non-Pinelands, with prices in the Pinelands rising at a somewhat faster rate. 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 lie 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 1990's. Four new supplemental variables were added to this year's report to examine the real estate trends in the non-residential markets of Southern New Jersey. The average Pinelands community outperformed the average Non-Pinelands municipality of Southern New Jersey by adding 17% more new retail space from 1996 to 2003. The Pinelands fared less well in the category of new office space added over the same period, trailing the Non-Pinelands by only 4% on average. However, if the office space numbers for Mount Laurel are not included (it had 13% of all the new space in South Jersey over the eight-year period), the Pinelands municipalities actually significantly outperformed the Non-Pinelands on average by 15% with respect to new office space. Other supplemental data shows the effect of the population increases of the past decade on the Pinelands region – from 1996 to 2003 the average Pinelands municipality built 60% more new school space in square feet than their Non-Pinelands counterpart.

Findings in the area of economic growth revealed a number of trends. After three consecutive years of modest increases in all regions of New Jersey from 2001 to 2003, unemployment decreased in 2004. The unemployment rate dropped 0.8% in both the Pinelands and the Non-Pinelands in 2004, finishing the year at 4.8% and 5.4% respectively. Both regions, as well as the state as a whole (4.8% for 2004) are below the national unemployment rate of 5.5%. New municipal data for employment, establishments, and wages once again became available this year, and 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 & food service. In addition, the US Census Bureau released its quintennial Census of Retail Trade for 2002 after publication of last year's annual report. Per capita retail sales increased 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%).

Assessed farmland acreage for the most recently available year could become of some concern, however. Assessed acres in the Pinelands decreased by 4.9% in 2002, marking the largest one-year decrease in the monitoring period. Farm acreage also decreased in the Non-Pinelands in 2002, falling 1.1%. 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 came from the recently released 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. Prices for cranberries and blueberries, important cultural and economic resources of the Pinelands, were unchanged in 2003. Utilized value for cranberries did increase as production jumped 11% in 2003, but the blueberry industry suffered a 5% decline in volume for the year.

Monitoring in the municipal finance category indicates a continuation of previous trends. 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 increasing gap between property taxes in the Pinelands region versus other regions. The average residential property tax bill grew at a slower rate compared to the Non-Pinelands during the period 1983 to 2003, and this trend continued in 2004. Equalized property values rose in all regions of the state for the seventh consecutive year in 2004, with the Pinelands region registering an increase of 15.2% in comparison to an increase in the Non-Pinelands of 13.8% for the year. Fueled by surging home values, effective tax rates fell for the fourth consecutive year in 2004 across all regions. However, the Pinelands experienced the steepest decline of any region with effective tax rates dropping 8.5% for the year. Data on local municipal purpose revenues indicated that the local municipal budgets of Pinelands municipalities increased at a smaller rate than the Non-Pinelands municipalities in 2004, and that per capita revenues remain much lower in the Pinelands. State aid to both regions decreased in 2004, with the Pinelands experiencing a steeper decline in funding. New data for the years 2003 and 2004 became available that allowed for an updated analysis of assessment class proportions in municipal valuations. The findings 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, the program's second special study focuses on characterizing and identifying municipalities that are experiencing poor health. Although difficult to define, poor 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. The final report for the project may provide a basis for legislation to allocate special aid to the most strained towns. Another study is focusing on changes in the sale price and value of vacant developable land within the Pinelands. A large database of transactions covering the years 1989 through 2002 has been assembled and analysis is ready to begin.

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 1980 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 that 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 towards 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 1980 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 2005 Annual Report is the ninth 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 2005 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.state.nj.us/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 environmental monitoring program, provides essential information for consideration by the

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.

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 Pinelandsrelated 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.

A technical advisory committee was created by the Pinelands Commission to provide informed and objective input on an ongoing basis. Committee members have helped to ensure that the program meets appropriate technical standards by assisting in identifying and specifying variables to be monitored, developing the detailed design, implementing appropriate methodologies, interpreting results, and reviewing draft documents. Current members of the expert advisory committee are:

John E. Petersen, Ph.D., Professor of Public Policy and Finance, George Mason University Henry O. Pollakowski, Ph.D., Professor, Center for Real Estate, Massachusetts Institute of Technology

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 2005 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 are not updated regularly. For instance, the US Census data is extremely valuable but since it is only updated every ten 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. A special study of vacant land values is also being conducted; further explanation can be found in the special studies section of this report.

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: retail sales per capita; per capita income; unemployment; employment, establishments, and wages; and agriculture (including farmland assessed acreage, census of agriculture data, and 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 long-range 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. Updates for the assessment class proportions variable were received for 2003 and 2004, so this variable will continue to be included as a core

variable in subsequent reports (dropping it had been considered this year until the updates were received; however, data is still unavailable for the period from 1995-2001).

| Name | of Core Variables 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 | 2001-2003 | 2003 | Annual | Inside/Outside Pinelands |
| Building Permits | 1980-2004 | 2004 | Annual | Inside/Outside Pinelands |
| Median Selling Prices of Homes | 1988-2004 | 2004 | Annual | Inside/Outside Pinelands |
| Volume of Real Estate Transactions | 1988-2004 | 2004 | Annual | Inside/Outside Pinelands |
| Retail Sales & Establishments | 1992, 1997, 2002 | 2002 | Quintennial | County, Place |
| Income | 1979, 1989, 1999 | None | Decennial | Inside/Outside Pinelands |
| Unemployment | 1980-2004 | 2004 | Annual | Inside/Outside Pinelands |
| Employment | 1993-1999, 2003 (municipal level) | 1991-2003 (county level) | Annual | Inside/Outside Pinelands (93-99), County (91-02) |
| Number of Establishments | 1993-1999, 2003 (municipal level) | 1991-2003 (county level) | Annual | Inside/Outside Pinelands (93-99), County (91-02) |
| Payroll by Major Industry Sector | 1993-1999, 2003 (municipal level) | 1991-2003 (county level) | Annual | Inside/Outside Pinelands (93-99), County (91-02) |
| Farmland Assessed Acreage | 1980-1984, 1986-2002 | 2002 | Annual | Inside/Outside Pinelands |
| Agricultural Census Data | 1982, 1987, 1992, 1997, 2002 | 2002 | Quintennial | County |
| Blueberry and Cranberry Production | 1972-2003 | 2003 | Annual | State |

| Table 2.2 | Summary | of Core Variables in | Annual Report |
|-----------|---------|----------------------|---------------|
|-----------|---------|----------------------|---------------|

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.

³ Refers to addition from previous report and specifies which years of data are new in this update.

You are Viewing an Archived Copy from the New Jersey State Library Table 2.2 (continued) Summary of Core Variables in Annual Report

| Name | Years Collected ² | Years Added ³ | Frequency of Collection | Method of Analysis |
|-----------------------------------------------------------|---------------------------------|-----------------------------|-------------------------------|-----------------------------|
| Average Residential Property Tax Bill | 1983-2004 | 2004 | Annual | Inside/Outside Pinelands |
| Equalized Property Value | 1980-2004 | 2004 | Annual | Inside/Outside Pinelands |
| Effective Tax Rate | 1980-2004 | 2004 | Annual | Inside/Outside Pinelands |
| Assessment Class Proportions in Municipal Valuation | 1980-1994, 2002-2004 | 2003, 2004 | Annual | Inside/Outside Pinelands |
| Local Municipal Purpose Revenues | 1995-2004 | 2004 | Annual | Inside/Outside Pinelands |

2.3 Supplemental Variables

Four supplemental variables have been added to the annual report this year, all of them in the Property Values and Residential Development section (Table 2.3a). 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 three of the new supplements listed below attempt to measure the nonresidential real estate development market in Southern New Jersey. There has been much talk of the burden that rapid new residential growth has placed on some municipalities in the Pinelands. However, absent from this discussion has been data that categorize the new ratables (new office and retail space) that help finance the new municipal costs that these new residents bring. Also included as a supplement this year is the data for new school space. A large percentage of municipal property taxes in recent years has been devoted to the costs associated with new schools, and this has been of particular interest to those Pinelands municipalities that are experiencing rapid growth in their school aged population. Two of the previous supplemental variables (Population Estimates and Local Municipal Purpose Revenues) have been upgraded to core variables this year. Please refer to the 2003 Annual Report for information regarding the previous supplements.

| rubic 2.00 Cummary of Cupplemental Valiables in the 2000 A induit (oport | | | | | |
|--------------------------------------------------------------------------|---------------------|-----------------|--------------------|--|--|
| Name | Source | Years Collected | Method of Analysis | | |
| New Retail Space in | NJ DCA Division of | 1996-2003 | Inside / Outside | | |
| Square Feet | Codes and Standards | | Pinelands | | |
| New Office Space in | NJ DCA Division of | 1996-2003 | Inside / Outside | | |
| Square Feet | Codes and Standards | | Pinelands | | |
| New School Space in | NJ DCA Division of | 1996-2003 | Inside / Outside | | |
| Square Feet | Codes and Standards | | Pinelands | | |
| Certificates of Occupancy | NJ DCA Division of | 1996-2003 | Inside / Outside | | |
| | Codes and Standards | | Pinelands | | |

| Table 2.3a | Summary of Supplemental Variables in the 2005 Annual Report |
|------------|-------------------------------------------------------------|
| 10010 2.00 | |

Table 2.3bSummary of Supplemental Variables in the Previous (2004) Annual Report

| Name | Source | Years Collected | Method of Analysis |
|-----------------------------|-----------------------|-----------------|--------------------|
| Population Estimates | NJ Dept Labor | 2001, 2002 | Inside / Outside |
| | | | Pinelands |
| Census of Housing Year | US Census Bureau | 2000 | Inside / Outside |
| Structure Built (By Decade) | | | Pinelands, Census |
| | | | Block Group |
| Visitor Attendance for NJ | NJ DEP Division of | 1992 - 2002 | Inside / Outside |
| State Forests | Parks and Forestry | | Pinelands |
| Local Municipal Purpose | NJ DCA Div Local Govt | 1995 - 2003 | Inside / Outside |
| Revenues | Services | | 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 definition of the "Pinelands" which 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. 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. 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, 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 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 thirteen counties of North Jersey). For the Retail Census and Covered Employment data (employment, establishment, and wages), information is

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

presented for the eight Southern New Jersey counties along with totals for the 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 Pineland's 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, 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.⁵ 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 five⁶ 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 2004 dollars. This is an update from the 2003 annual report, where variables were keyed to the 2003 CPI. Even sections that did not receive a substantial update this year (as indicated by a check mark in the upper right hand corner "Update" box) have been adjusted to the 2004 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 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 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

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. Dover Township is excluded, as less than ½ of one percent of its land is in the Pinelands.

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 2005 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 again 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.⁷ 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.

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.

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 questionnaires and the availability of data, the following eight variables are being examined: unemployment rate, per capita income, poverty rate, population change, effective tax rate, tax to income ratio, effective school tax rate, and the percentage of ratables that are commercial and industrial. The analysis will calculate percentiles and use statistical tests to identify fiscal issues unique to Pinelands municipalities. A series of other comparisons will also be made, examining urban towns versus rural towns, comparing rural Pinelands towns versus rural Non-Pinelands towns, and comparing Pinelands growth towns to Non-Pinelands growth towns. Variables for this part of the study have been updated, and preliminary tests have been performed.

The second part of the study will identify Pinelands towns that are most in need of fiscal assistance, and will design a corresponding funding model. Municipalities with at least 30% of their land in the Pinelands will be included. Variables that may be used in these models include: effective school tax rate, per capita income, tax to income ratio, percentage of total ratable base that is commercial or industrial, proportion of land in Pinelands Conservation Areas, unemployment rate, population change inside the Pinelands boundary, and municipal revenues per capita.

Special Project: Vacant Land Value Study (Underway)

While not an official special study, the vacant land value project is an extension of the property value and real estate monitoring aspect of the annual report. In September 1999, Pinelands Commission staff obtained data from the New Jersey Department of Treasury on all New Jersey land and housing transactions dating back to 1989. Vacant land transactions were supplemented with additional information in order to enhance the usefulness of the data in determining the value of vacant land. Pinelands Commission staff gathered supplemental data for each vacant land transaction (i.e., acreage, zoning, management area, and more). The supplemental data was gathered from tax maps as well as other available data sources. Data collection culminated in 2003. A formal database was created and cleaned in order to reconcile errors and fill in missing data. The database contains approximately 5,700 records of transactions inside the Pinelands boundary and 16,000 records outside the Pinelands boundary from the years 1989 through 2002. Statistical analysis of the data is presently being conducted. Data collection of vacant land transactions will continue in the future.

Special Project: Housing Task Force

In October of 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 is expected to issue its final report by the end of this year.

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.

NJ Pinelands Commission Long-Term Economic Monitoring Program 2005 Annual Report of Indicators

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, the remaining 149 have no land in the Pinelands).

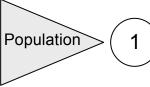
Southern New Jersey: the Pinelands municipalities plus the Non-Pinelands municipalities (47 + 155 = 202 municipalities total). Defined as the counties of Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Ocean, and Salem.

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 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 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 to 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.

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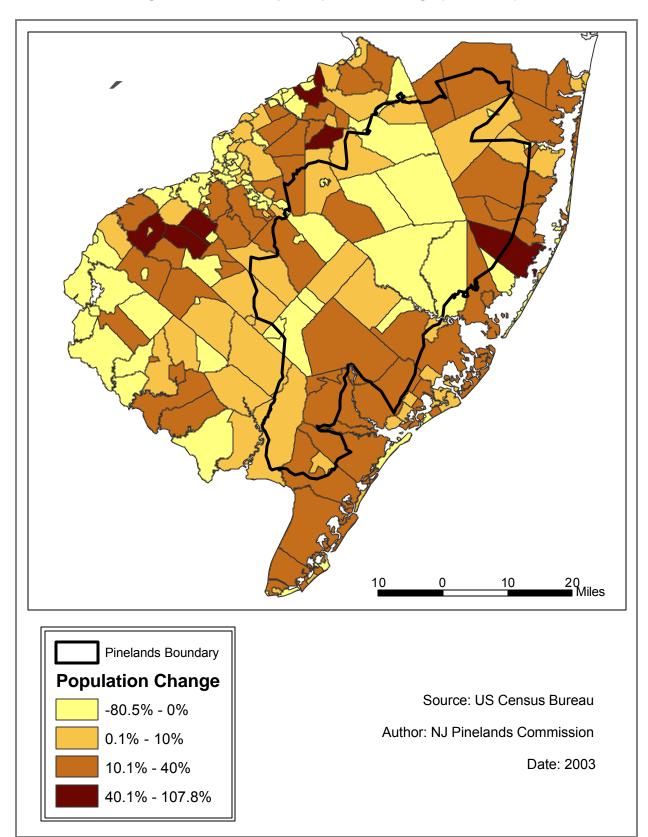


Figure P1 Municipal Population Change (1990-2000)

| | Table P1a Population by Pinelands Municipality | | | | | |
|--------------------------------|--------------------------------------------------------|--------|--------|--------|-------------------|-------------------|
| 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. Beachwood Boro | Burlington | 6,462 | 5,765 | 4,537 | 12% | 27% |
| | 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% |
| Vanchester 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% |
| Wedford Lakes Boro | Burlington | 4,173 | 4,462 | 4,958 | -6% | -10% |
| South Toms River Boro | | 3,634 | , | | -6% | -10% |
| | Ocean | | 3,869 | 3,954 | | |
| 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% |
| _akehurst Boro | Ocean | 2,522 | 3,078 | 2,908 | -18% | 6% |
| Washington Twp. | Burlington | 621 | 805 | 808 | -23% | 0% |
| Noodland Twp. | Burlington | 1,170 | 2,063 | 2,285 | -43% | -10% |
| Nrightstown Boro | Burlington | 748 | 3,843 | 3,031 | -81% | 27% |
| Outside" Municipalities | | 469 | 440 | 054 | 1.40/ | 600/ |
| 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% |
| Vineland City | Cumberland | 56,271 | 54,780 | 53,753 | 3% | 2% |
| North Hanover Twp. | Burlington | 7,347 | 9,994 | 9,050 | -26% | 10% |

*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.

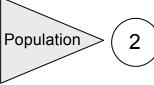
| Table P1b 2000 Census Group Quarters Population | | | | | | | | |
|-------------------------------------------------|-------------|------------|-------------------|--------------|-------------|--------|---------|--------------|
| Municipality | County | Population | Group Quarters | GQ % | Institution | Inst % | | Non Inst % |
| New Hanover | Burlington | 9,834 | 6,124 | 62.3% | 4,846 | 49.3% | 1,278 | 13.0% |
| Maurice River | Cum berland | 6,928 | 3,360 | 48.5% | 3,360 | 48.5% | 0 | 0.0% |
| Washington | Burlington | 579 | 179 | 30.9% | 109 | 18.8% | 70 | 12.1% |
| Woodbine | Cape May | 2,716 | 568 | 20.9% | 568 | 20.9% | 0 | 0.0% |
| Chesilhurst | Camden | 1,520 | 138 | 9.1% | 88 | 5.8% | 50 | 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 | 0.9% | 125 | 0.8% | 2 | 0.9% |
| 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 | 0.8% |
| Franklin | Gloucester | 15,466 | 90 | 0.6% | 0 | 0.0% | 90 | 0.2% |
| Southampton | Burlington | 10,333 | <u>90</u> 61 | 0.6% | 61 | 0.6% | 90 | 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 Egg Harbor Twp | Atlantic | 1,972 | 7 49 | 0.4% 0.2% | 0 | 0.0% | 7 49 | 0.4% 0.2% |
| 00 1 | Atlantic | 30,619 | | | | | | |
| Lacey | Ocean | 25,346 | 39 | 0.2% | 26 | 0.1% | 13 | 0.1% |
| Upper Diversats d | 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 2 | 0.1% | 0 | 0.0% | 6 2 | 0.1% |
| Shamong | Burlington | 6,462 | | 0.0% | 0 | 0.0% | | 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 | 2,250 | 0 | 0.0% | 0 | 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 | | | | | | | | |
| 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 P1b2000 Census Group Quarters Population

| Table | PIC Gr | oup Quar | ters Compo | onents of I | Population Change 1990-2000 | | | |
|----------------------|---------------|----------|-------------|-------------|-----------------------------|-----------------------|------------|--|
| | | 2000 | Pop Change | | Non- Institutional | Non-Group Quarters | Difference | |
| Municipality | County | | 1990 – 2000 | Change | Change | Change | | |
| 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 | -308 | -60 | 47 | -384 | 13 | |
| Monroe | Gloucester | 28,967 | 2,264 | -60 -21 | 10 | 29 2,275 | 13 | |
| | | | | | | | | |
| 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 | Ocean | 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 | Ocean | 7,275 | 1,270 | 0 | 8 | 1,262 | -8 | |
| Hammonton | Atlantic | 12,604 | 396 | -103 | 113 | 386 | -10 | |
| Egg Harbor Twp | Atlantic | 30,619 | 6,182 | 0 | 27 | 6,155 | -27 | |
| Little Egg Harbor | Ocean | 16,019 | 2,612 | 45 | 0 | 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 | -50 | |
| Wrightstown | Burlington | 747 | | | -91 | | -05 -91 | |
| <u> </u> | 9 | | -3,095 | 0 | | -3,004 | | |
| Galloway Stafford | Atlantic | 31,159 | 7,879 | -40 | 193 | 7,726 | -153 | |
| | 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 | Durlin et a r | 0.007 | 400 | 40 | 47 | 050 | 57 | |
| 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 | |

| Table P1c | Group Quarters Comp | oonents of Population | Change 1990-2000 |
|-----------|---------------------|-----------------------|------------------|
|-----------|---------------------|-----------------------|------------------|

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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 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 ten municipalities in population account for 58% of the Pinelands total population, while the top twenty 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 ten municipalities with the least population in the Pinelands do not even comprise ½% of the total Pinelands population. Five of these ten 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 fifty-two 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% | - , |
| 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 | 69% | 4,819 | 70% | 30% | 2,109 |
| Egg Harbor City | 100% | 4,545 | 100% | 0% | 2,100 |
| Medford Lakes | 100% | 4,343 | 100 % | 0% | |
| Jackson | 47% | 4,173 | 100% | 90% | 38,710 |
| Barnegat | 56% | 3,226 | 21% | | 12,044 |
| North Hanover | 4% | | 42% | 58% | |
| Woodbine | 4 % 95% | 3,090 2,716 | 42% | | 4,257 |
| Franklin | 36% | 2,710 | 17% | 83% | 12,802 |
| South Toms River | 48% | 2,004 | 69% | 31% | 12,002 |
| | | | | 94% | |
| Berkeley | 30% | 2,467 | 6% | | 37,524 |
| Lakehurst | 87% 100% | 2,393 | 95% 100% | 5% 0% | 129 |
| Folsom | | 1,972 | | 26% | 600 |
| Weymouth | 82% | 1,668 | 74% | | 600 |
| Dennis | 38% | 1,623 | 25% | 75% | 4,869 |
| Chesilhurst | 100% | 1,520 | 100% | 0% | 70 |
| 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 | 2% | 0 | 0% | 100% | |

Table P2bPopulation 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- | 1990-2000 |
| | | | | | | 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% | | 100.1 | 700/ |
| Medford Twp | 75% | 18206 | 33 | 0% | 2320 | 1694 | 73% |
| Vineland | 7% | 166 | 20 | 12% | 54614 | 1471 | 3% |
| Mullica | 100% | 5896 | 16 | 0% | ==00 | 100 | |
| Berlin Boro | 10% | 133 | 8 | 6% | 5539 | 469 | 8% |
| Corbin City | 1% 20% | 3 | 4 | 133% 0% | 409 1476 | 52 -35 | 13% |
| Eagleswood Chesilhurst | 100% | 1526 | -6 | 0% | 1470 | -35 | -2% |
| | 47% | | -0 -18 | 0% | 20100 | 0000 | 220/ |
| Jackson | 47% 35% | 4124 124 | -18 -22 | 0% -18% | 29108 877 | 9602 | 33% |
| Port Republic Plumsted | 35% 53% | 436 | -22 -24 | -18% -6% | 5569 | 58 1294 | 7% 23% |
| Bass River | 53% 87% | 1269 | -24 -35 | -0% | 311 | -35 | -11% |
| Egg Harbor City | 100% | 4583 | -33 | -3 % | 511 | -55 | -11/0 |
| | 67% | 4383 563 | -30 | -1% | 21578 | 3247 | 15% |
| Beachwood | 28% | 65 | -42 | -94% | 9259 | 1112 | 13 % |
| Little Egg Harbor | 23% | 172 | -65 | -38% | 13158 | 2680 | 20% |
| Springfield | 20% | 123 | -123 | -100% | 2911 | 316 | 11% |
| Washington | 100% | 805 | -184 | -23% | 2011 | 510 | 1170 |
| Tabernacle | 100% | 7360 | -190 | -3% | | | |
| South Toms River | 48% | 2689 | -194 | -7% | 1210 | -71 | -6% |
| Folsom | 100% | 2000 | -209 | -10% | 1210 | -71 | -070 |
| Buena | 47% | 1077 | -212 | -20% | 3364 | -356 | -11% |
| Buena Vista | 90% | 6512 | -264 | -4% | 1143 | 45 | |
| Medford Lakes | 100% | 4462 | -289 | -6% | | | . / 0 |
| Waterford | 100% | 10940 | -446 | -4% | | | |
| Lakehurst | 87% | 2939 | -546 | -19% | 139 | -10 | -7% |
| Monroe | 69% | 15122 | -716 | -5% | 11581 | 2980 | |
| Woodland | 100% | 2063 | -893 | -43% | | | |
| North Hanover | 4% | 5493 | -2403 | | 4560 | -303 | -7% |
| Pemberton Twp | 90% | 30740 | -2613 | | 602 | -38 | |
| Wrightstown | 73% | 3082 | -2959 | | 761 | -136 | |

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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% | | | | |

3

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 s hows 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 1990's, 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.

<u>Update</u>

Population

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 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.

| | 1980 | | | | | | | | |
|--------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|--------------------|
| Age Class | 18 - 22 | 23 - 29 | 30 - 34 | 35 - 39 | 40 - 49 | 50 - 59 | 60 - 64 | 65 - 69 | Total [®] |
| # 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% |
| | | | | 1000 | | | | | |
| | 10 00 | | | 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% |

Table P3aMedian Age, 1980, 1990 and 2000 (Municipal Level)

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

Population Population Population % Under 18 % Under 18 Population County Municipality Under 18 Under 18 Outside Inside 2000 Inside Outside 2000 Inside Outside South Toms River 2.877 909 31.6% 34.1% 757 Ocean 258 Cape May 2.816 864 30.7% 28.0% 2,603 9,299 Upper Ocean Lakehurst 2,522 771 30.6% 0.0% 0 0 6,462 29.4% Burlington Shamong 1,898 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 Egg Harbor City 4,545 1,284 28.3% 0.0% Atlantic 0 0 Ocean Little Egg Harbor 989 280 28.3% 23.9% 3,574 14,956 28.6% 2,585 Beachwood 1,331 375 28.2% 9.044 Ocean Burlington 7,658 28.1% 1,448 Pemberton Twp 18.2% 263 27,243 Burlington Tabernacle 7.170 2.004 27.9% 0.0% 0 (729 27.7% 21.9% 3,334 Burlington Medford Twp 18,919 5,245 Franklin 735 27.6% 27.7% 3,546 Gloucester 2,664 12,802 865 237 27.4% 25.3% 760 3,008 Atlantic Buena 5.627 1.523 27.1% 30.1% Ocean Jackson' 11,178 37,183 Atlantic Hamilton 19.287 5.199 27.0% 29.2% 354 1,212 Ocean Stafford 13,390 3,612 27.0% 19.0% 1,740 9,142 0.0% Atlantic Mullica 5,912 1.594 27.0% 0 0 Burlington Bass River 1,510 405 26.8% 0.0% 0 0 Atlantic Buena Vista 6,248 1,659 26.6% 15.1% 179 1,188 Estell Manor / Atlantic Wevmouth/ 3,177 841 26.5% 30.0% 340 1,133 Corbin City* 3,905 Gloucester Monroe 14.813 26.4% 24.9% 3.522 14,154 1,274 Dennis 4,357 2,135 562 26.3% Cape May 29.2% Ocean 825 216 26.2% 25.4% 1,427 5,625 Ocean Burlington Evesham 12,827 3,338 26.0% 27.7% 8,147 29,448 1,170 Burlington Woodland 302 25.8% 0.0% 0 ſ 10,494 Camden Waterford 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 25.0% 24,825 Ocean Lacey 521 130 25.6% 6,353 0.0% 1,972 24.9% Atlantic Folsom 491 0 0 Jackson / Ocean 446 108 24.2% 0.0% 0 0 Manchester / Plumsted* 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 1,520 22.9% 0.0% Chesilhurst 348 0 0 2,874 Atlantic Hammonton 12,604 22.8% 0.0% 0 0 Atlantic Galloway 10,658 2,418 22.7% 28.9% 4.470 15,465 Ocean 3,226 14.5% 30.4% Barnegat 467 3,666 12,044 Burlington Southampton 6.445 907 14.1% 24.0% 947 3.943 635 Burlington New Hanover + 9,109 1.224 13.4% 29.8% 189 Cumberland 5.152 424 8.2% 26.4% 468 1.776 Maurice River + Ocean Manchester* 10,995 871 7.9% 11.7% 3,206 27,493 Berkeley 2,391 Ocean 0.3% 12.1% 4,521 37,434 Galloway / Port Atlantic 0 0 0.0% 23.2% 1.423 6.123 Republic* 0.0% 25.8% 1,364 5,290 Camden 0 Berlin Twp 0 0 0.0% 24.7% 356 1.441 Ocean Eagleswood 0 Plumsted' 0.0% 28.5% 2.071 7,275 Ocean Λ 0 "Outside" Municipalities 1.383 Burlington North Hanover + 3,090 44.8% 25.5% 1.085 4.257 Cumberland 25.7% 14,405 Vineland 186 58 31.2% 56,085 0.0% Burlington Springfield 0 0 25.8% 833 3,227 Camden Berlin Boro 0 0 0.0% 24.6% 1.513 6,149

Table P3bPopulation Under 18 Years of Age Inside and Outside the Pinelands
Boundary (Census Block Group Level)

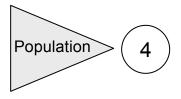
* Some municipalities cannot be isolated because census block groups cut across municipal boundaries. Block groups that are shared by more than one municipality are listed separately.

+ Influenced by group quarters population.

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

| County | Municipality | Population Inside 2000 | Population Over 64 Inside | % Over 64 Inside | % Over 64 Outside | Population Over 64 Outside | Population Outside 2000 |
|----------------------|---------------------------------------------|---------------------------|------------------------------|-------------------------|----------------------|----------------------------------|----------------------------|
| Ocean | Berkeley | 2,391 | 2,076 | 86.8% | 50.0% | 18,701 | 37,434 |
| Ocean | Manchester* | 10,995 | 6,816 | 62.0% | 52.4% | 14,394 | 27,493 |
| Burlington | Southampton | 6,445 | 2,830 | 43.9% | 11.8% | 465 | 3,943 |
| Ocean | Barnegat | 3,226 | 1,315 | 40.8% | 11.8% | 1,424 | 12,044 |
| Burlington | Washington | 621 | 151 | 24.3% | 0.0% | 0 | 0 |
| Atlantic | Hammonton | 12,604 | 2,265 | 18.0% | 0.0% | 0 | 0 |
| Ocean | Stafford | 13,390 | 2,281 | 17.0% | 21.5% | 1,963 | 9,142 |
| Burlington | Wrightstown | 39 | 6 | 15.4% | 8.2% | 58 | 709 |
| Atlantic | Estell Manor / Weymouth/ Corbin City* | 3,177 | 479 | 15.1% | 9.7% | 110 | |
| Camden | Chesilhurst | 1,520 | 229 | 15.1% | 0.0% | 0 | 0 |
| Ocean | Jackson* | 5,627 | 811 | 14.4% | 8.6% | 3,198 | 37,183 |
| Atlantic | Egg Harbor City | 4,545 | 633 | 13.9% | 0.0% | 0 | |
| Atlantic | Buena | 865 | 111 | 12.8% | 16.7% | 502 | 3,008 |
| Burlington | Medford Lakes | 4,173 | 516 | 12.4% | 0.0% | 0 | 0 |
| Ocean | Ocean | 825 | 98 | 11.9% | 14.0% | 790 | 5,625 |
| Camden | Winslow | 15,710 | 1,853 | 11.8% | 5.7% | 1,086 | 18,901 |
| Atlantic | Buena Vista | 6,248 | 692 | 11.1% | 37.5% | 446 | 1,188 |
| Gloucester | Monroe | 14,813 | 1,595 | 10.8% | 15.1% | 2.142 | 14,154 |
| Atlantic | Mullica | 5,912 | 630 | 10.0% | 0.0% | 0 | |
| Burlington | Bass River | 1,510 | 161 | 10.7% | 0.0% | 0 | - |
| | Woodbine | 2,716 | 283 | 10.7 % | 0.0% | 0 | 0 |
| Cape May Atlantic | Galloway* | 10,658 | 1,078 | 10.4% | 6.9% | 1,073 | 15,465 |
| | | | | | | | |
| Ocean | Little Egg Harbor | 989 | 98 | 9.9% | 18.2% | 2,723 | 14,956 |
| Atlantic | Folsom | 1,972 | 193 | 9.8% | 0.0% | 0 | 0 |
| Cape May | Dennis | 2,135 | 203 | 9.5% | 13.7% | 595 | 4,357 |
| Ocean | Beachwood | 1,331 | 125 | 9.4% | 8.5% | 771 | 9,044 |
| Burlington | Pemberton Twp | 27,243 | 2,501 | 9.2% | 20.2% | 292 | 1,448 |
| Atlantic | Egg Harbor Twp | 16,209 | 1,477 | 9.1% | 8.7% | 1,198 | 13,841 |
| Gloucester | Franklin | 2,664 | 238 | 8.9% | 9.7% | 1,242 | 12,802 |
| Burlington | Medford Twp | 18,919 | 1,658 | 8.8% | 21.9% | 729 | 3,334 |
| Ocean | South Toms River | 2,877 | 250 | 8.7% | 10.3% | 78 | 757 |
| Ocean | Lacey | 521 | 45 | 8.6% | 15.3% | 3,809 | 24,825 |
| Atlantic | Hamilton | 19,287 | 1,599 | 8.3% | 6.9% | 84 | 1,212 |
| Camden | Waterford | 10,494 | 854 | 8.1% | 0.0% | 0 | 0 |
| Ocean | Lakehurst | 2,522 | 201 | 8.0% | 0.0% | 0 | 0 |
| Burlington | Woodland | 1,170 | 90 | 7.7% | 0.0% | 0 | 0 |
| Cape May | Upper | 2,816 | 203 | 7.2% | 13.6% | 1,269 | 9,299 |
| Burlington | Tabernacle | 7,170 | 502 | 7.0% | 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 | 29,448 |
| Cumberland | Maurice River + | 5,152 | | 4.2% | 12.9% | 229 | |
| Burlington | New Hanover + | 9,109 | 75 | 0.8% | 7.9% | 50 | |
| Ocean | Jackson / Manchester / Plumsted* | 446 | | 0.0% | 0.0% | 0 | |
| Atlantic | Galloway / Port Republic* | 0 | 0 | 0.0% | 13.1% | 803 | 6,123 |
| Camden | Berlin Twp | 0 | 0 | 0.0% | 12.5% | 663 | 5,290 |
| Ocean | Eagleswood | 0 | 0 | 0.0% | 14.4% | 207 | 1,441 |
| Ocean | Plumsted* | 0 | | 0.0% | 8.5% | 621 | 7,275 |
| "Outside" Mul | | | | | | | ., |
| | Vineland | 186 | 19 | 10.2% | 14.2% | 7,957 | 56,085 |
| Burlington | North Hanover + | 3,090 | | 0.1% | 10.5% | 448 | |
| Burlington | Springfield | 3,090 | 4 | 0.1% | 10.5% | 346 | |
| | Berlin Boro | 0 | 0 | 0.0% | 13.6% | 837 | 6,149 |
| Camden | | 0 | 0 | 0.0% Sups cut across | | | |

* 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

Population Estimates



US Census Bureau / NJ Dept of Labor 2001 - 2003

• The Pinelands communities again grew more quickly than the Non-Pinelands in 2003. Evidence suggests that much of this growth is occurring on the fringes of the Pinelands.

| | 2002 Estimate | 2003 Estimate | Change | % Change |
|------------------------------------------|------------------|------------------|--------|----------|
| New Jersey | 8,575,252 | 8,638,396 | 63,144 | 0.7% |
| South Jersey | 2,321,865 | 2,350,748 | 28,883 | 1.2% |
| Pinelands | 643,787 | 657,971 | 14,184 | 2.2% |
| Non-Pinelands | 1,678,078 | 1,692,777 | 14,699 | 0.9% |
| 100% Land in Pines (11 municipalities) | 57,604 | 58,153 | 549 | 1.0% |
| 55-99% Land in Pines (19 municipalities) | 313,523 | 319,935 | 6,412 | 2.0% |
| 10-54% Land in Pines (17 municipalities) | 272,660 | 279,883 | 7,223 | 2.6% |

<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 2002 and 2003 will be updated when 2004 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 2.1% between 2000 and 2002, adding almost 176,000 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 2002, increasing by 4.6% (compared to 2.1% statewide growth and 2.6% 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 slowed slightly throughout all regions of the state between 2002 and 2003. Despite this slowdown, the same patterns of growth continued in 2003. The Pinelands communities grew at twice the rate of both the state as a whole and the rest of South Jersey (Pines +2.2%, Non-Pines South Jersey +0.9%, and Statewide +0.7%). However, upon closer examination it appears that past inside/outside growth trends uncovered by the census block analysis appear to be continuing. The eleven communities with their land area entirely within the Pinelands boundary showed a 1% increase in population in 2003. Those communities that straddle the Pinelands boundary showed considerably higher growth as the percentage of land in the Pinelands decreases (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: Jackson, Egg Harbor Township, Evesham, Barnegat, Little

Egg Harbor, Monroe, Hamilton, and Ocean Township (see Table P4). By contrast, only two South Jersey communities outside the Pines achieved such growth: Woolwich (+971, +21.3%) and Delran (+493, +3.1%).

| Table P4 Population Estimates | | | | | | | | |
|-------------------------------|------------------------|--------|--------|----------|-------------------------------------|-------------|---------------------------------------|--|
| Municipality | County | 2002 | 2003 | Change | South Jersey Rank : Change | % Change | South Jersey Rank : % Change | |
| Jackson | Ocean | 47,607 | 49,644 | 2,037 | 1 | 4.3% | 12 | |
| Egg Harbor Township | Atlantic | 33,337 | 35,061 | 1,724 | 2 | 5.2% | 9 | |
| Evesham | Burlington | 44,572 | 46,111 | 1,539 | 3 | 3.5% | 16 | |
| Barnegat | Ocean | 16,394 | 17,632 | 1,238 | 4 | 7.6% | 3 | |
| Little Egg Harbor | Ocean | 17,683 | 18,616 | 933 | 6 | 5.3% | 8 | |
| Monroe | Gloucester | 29,551 | 30,427 | 876 | 8 | 3.0% | 19 | |
| Manchester | Ocean | 41,404 | 42,228 | 824 | 10 | 2.0% | 28 | |
| Hamilton | Atlantic | 21,913 | 22,705 | 792 | 12 | 3.6% | 14 | |
| Galloway | Atlantic | 33,482 | 34,221 | 739 | 13 | 2.2% | 27 | |
| Stafford | Ocean | 23,770 | 24,318 | 548 | 18 | 2.3% | 24 | |
| Ocean | Ocean | 6,722 | 7,214 | 492 | 20 | 7.3% | 4 | |
| Berkeley | Ocean | 41,919 | 42,247 | 328 | 28 | 0.8% | 91 | |
| Medford | Burlington | 23,055 | 23,359 | 304 | 30 | 1.3% | 52 | |
| Winslow | Camden | 34,938 | 35,150 | 212 | 34 | 0.6% | 105 | |
| Franklin | Gloucester | 15,825 | 16,013 | 188 | 36 | 1.2% | 58 | |
| | | 10,734 | 10,013 | 184 | 37 | 1.2% | 36 | |
| Southampton | Burlington Atlantic | | | 104 | 42 | 1.7% | 50 | |
| Hammonton | | 12,823 | 12,994 | | | | | |
| Pemberton Township | Burlington | 28,782 | 28,938 | 156 | 44 | 0.5% | 112 | |
| Plumsted | Ocean | 7,915 | 8,034 | 119 | 49 | 1.5% | 44 | |
| Shamong | Burlington | 6,636 | 6,749 | 113 | 51 | 1.7% | 37 | |
| Chesilhurst | Camden | 1,664 | 1,756 | 92 | 56 | 5.5% | 7 | |
| Beachwood | Ocean | 10,621 | 10,712 | 91 | 58 | 0.9% | 86 | |
| Lacey | Ocean | 26,152 | 26,240 | 88 | 59 | 0.3% | 129 | |
| Mullica | Atlantic | 5,968 | 6,038 | 70 | 64 | 1.2% | 63 | |
| Buena Vista | Atlantic | 7,501 | 7,556 | 55 | 77 | 0.7% | 96 | |
| Tabernacle | Burlington | 7,269 | 7,312 | 43 | 84 | 0.6% | 108 | |
| Eagleswood | Ocean | 1,500 | 1,534 | 34 | 88 | 2.3% | 25 | |
| Maurice River | Cumberland | 7,567 | 7,600 | 33 | 89 | 0.4% | 120 | |
| Berlin Township | Camden | 5,328 | 5,360 | 32 | 91 | 0.6% | 107 | |
| Estell Manor | Atlantic | 1,629 | 1,657 | 28 | 97 | 1.7% | 35 | |
| South Toms River | Ocean | 3,675 | 3,703 | 28 | 97 | 0.8% | 94 | |
| Weymouth | Atlantic | 2,297 | 2,324 | 27 | 103 | 1.2% | 61 | |
| Waterford | Cam den | 10,622 | 10,645 | 23 | 106 | 0.2% | 135 | |
| Bass River | Burlington | 1,539 | 1,562 | 23 | 106 | 1.5% | 45 | |
| Lakehurst | Ocean | 2,562 | 2,582 | 20 | 112 | 0.8% | 92 | |
| Woodland | Burlington | 1,336 | 1,354 | 18 | 116 | 1.3% | 49 | |
| Medford Lakes | Burlington | 4,190 | 4,205 | 15 | 118 | 0.4% | 126 | |
| Port Republic | Atlantic | 1,057 | 1,071 | 14 | 122 | 1.3% | 51 | |
| New Hanover | Burlington | 9,508 | 9,520 | 12 | 126 | 0.1% | 146 | |
| Folsom | Atlantic | 1,971 | 1,977 | 6 | 138 | 0.3% | 131 | |
| Washington | Burlington | 633 | 637 | 4 | 144 | 0.5% | 103 | |
| Wrightstown | Burlington | 748 | 749 | 1 | 152 | 0.0% | 144 | |
| Woodbine | Cape May | 2,677 | 2,677 | 0 | 152 | 0.1% | 155 | |
| Buena | Atlantic | 3,836 | 3,832 | -4 | 169 | -0.1% | 155 | |
| | Atlantic | | | | | | | |
| Egg Harbor City | | 4,492 | 4,486 | -6 25 | 178 | -0.1% | 177 | |
| Upper | Cape May | 12,000 | 11,965 | -35 | 200 | -0.3% | 189 | |
| Dennis | Cape May | 6,383 | 6,338 | -45 | 201 | -0.7% | 201 | |
| "Outside" Munis | | =0.0=0 | | | | 4.634 | | |
| Vineland | Cumberland | 56,376 | 57,057 | 681 | 14 | 1.2% | 57 | |
| Springfield | Burlington | 3,422 | 3,504 | 82 | 60 | 2.4% | 23 | |
| North Hanover | Burlington | 7,489 | 7,556 | 67 | 67 | 0.9% | 83 | |
| Berlin Borough | Camden | 6,756 | 6,819 | 63 | 71 | 0.9% | 77 | |
| Corbin City | Atlantic | 505 | 519 | 14 | 122 | 2.8% | 20 | |

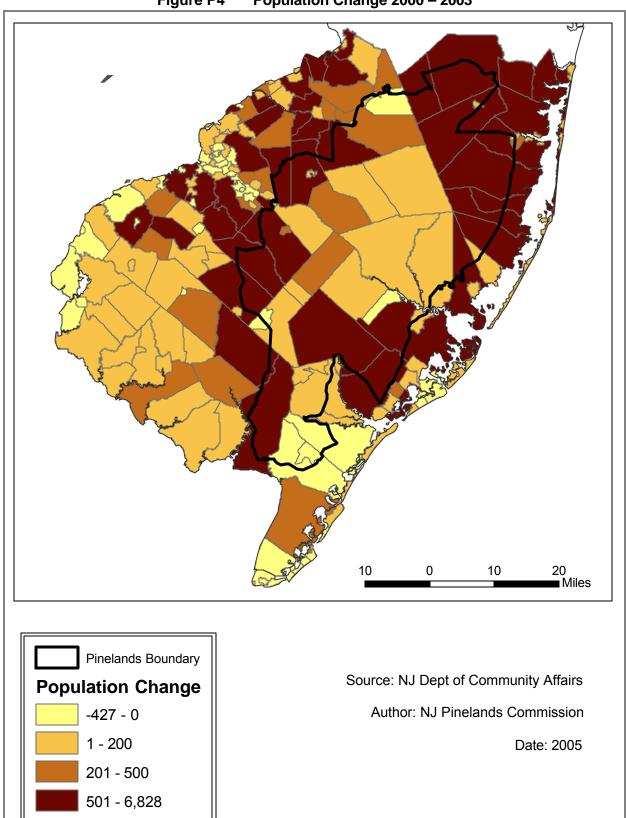
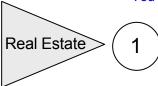


Figure P4 Population Change 2000 – 2003

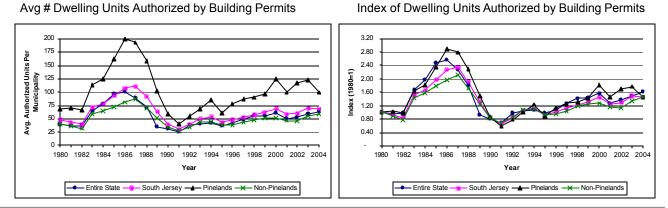


Building Permits for Dwelling Units

New Jersey Department of Labor 1980 - 2004

X Updated

• For the first time in the monitoring period, the average number of building permits issued in the Pinelands decreased while both the State as a whole and the Non-Pinelands region increased in 2004.



<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-1980's 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 1980's.

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.

Update:

There was a dramatic shift in building permit activity in the Pinelands in 2004. The average number of permits issued in the Pinelands decreased from 122 to 100, a decline of 18.9%. In contrast, the state as a whole increased permit activity by 8.9% (from 58 to 63) and the Non-Pinelands South Jersey municipalities increased permits by 8.4% (from 55 to 60). In fact, 2004 marked only the second time in the last 9 years that building permits have decreased in the Pinelands. The only other year during that period that saw a decrease in permits was 2001, but all the other regions of the state also experienced declines in that year as well (Statewide -18.3%, Pinelands -19.7%, and Non-Pinelands -9.4%).

Upon closer examination, it is clear that the large decrease in 2004 is mostly the result of rather large decreases in permit activity in four communities who in 2003 comprised almost half of all activity in the Pinelands. In 2004, Jackson, Hamilton, Egg Harbor Township, and Barnegat combined issued 1,095 fewer permits than they did in 2003

(see Table R1). In contrast to that sharp decrease (-42.3%), the remaining 43 Pinelands communities combined issued 34 more permits in 2004 than they did in 2003 (+1.1%). In fact, in 2003 Jackson, Hamilton, Egg Harbor Township, and Barnegat issued 45% of the total permits in the Pinelands. In 2004 that figured dropped to 31.8%. Other communities that experienced considerable decreases in 2004 were Manchester and Upper Township, both of which had declines of greater than 70%.

Permit growth did continue significantly in two Pinelands communities. For the second year in a row, Winslow had the greatest absolute increas e in permits issued in the Pinelands (+198, +52%). After showing a slight decrease in activity in 2003, Galloway was the only other Pinelands municipality that increased permits in 2004 by more than 100 (+126, +42%). Galloway has now issued in excess of 300 building permits in 4 of the last 5 years.

| Winslow Winslow Galloway Galloway Lacey Galloway Hammonton Galloway Ocean Galloway Mullica Galloway Eagleswood Galloway Pemberton Township Galloway Egg Harbor City Galloway Tabernacle Galloway Maurice River Galloway Folsom Galloway | County Camden Atlantic Ocean Atlantic Ocean | Permits 2004 580 423 | 2003 382 | Change | % Change | 4 Year Avg | Permits |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------|--------------------|-------------|----------|------------|-----------|
| Winslow Galloway Gall | Camden Atlantic Ocean Atlantic | 580 423 | | Change | % Change | 4 Tear Avg | |
| Galloway / Lacey / Hammonton / Ocean / | Atlantic Ocean Atlantic | 423 | 382 | | | | 2001-2004 |
| Lacey Hammonton A Ocean A Mullica A Eagleswood C Pemberton Township E Egg Harbor City A Tabernacle Maurice River A | Ocean Atlantic | | | 198 | 52% | | 1,110 |
| Hammonton / Ocean / Mullica / Eagleswood / Pemberton Township / Egg Harbor City / Tabernacle / Maurice River / Folsom / | Atlantic | | 297 | 126 | 42% | | 1,406 |
| Ocean 0 Mullica / Eagleswood 0 Pemberton Township 1 Egg Harbor City / Tabernacle 1 Maurice River 0 Folsom / | | 71 | 11 | 60 | 545% | | 207 |
| Mullica Eagleswood Eagleswood Egg Harbor City Tabernacle Maurice River Folsom | Ocean | 175 | 121 | 54 | 45% | | 437 |
| Eagleswood Pemberton Township I Egg Harbor City / Tabernacle I Maurice River / Folsom / | | 178 | 141 | 37 | 26% | | 595 |
| Pemberton Township Egg Harbor City Tabernacle Maurice River Folsom | Atlantic | 35 | 17 | 18 | 106% | | 95 |
| Egg Harbor City Tabernacle I Maurice River G Folsom | Ocean | 20 | 7 | 13 | 186% | | 51 |
| Tabernacle Maurice River Control River | Burlington | 35 | 25 | 10 | 40% | 30 | 118 |
| Maurice River (Folsom | Atlantic | 17 | 8 | 9 | 113% | 7 | 27 |
| Folsom | Burlington | 15 | 11 | 4 | 36% | 13 | 51 |
| | Cumberland | 9 | 5 | 4 | 80% | 5 | 19 |
| Stafford | Atlantic | 4 | 1 | 3 | 300% | 3 | 11 |
| | Ocean | 318 | 315 | 3 | 1% | | 1,130 |
| Berlin Township | Camden | 17 | 14 | 3 | 21% | | 57 |
| | Burlington | 4 | 2 | 2 | 100% | 3 | 13 |
| | Atlantic | 8 | 7 | 1 | 14% | | 31 |
| - | Ocean | 3 | 2 | 1 | 50% | | 11 |
| | Ocean | 6 | 5 | 1 | 20% | | 20 |
| | Burlington | 3 | 2 | 1 | 50% | | 8 |
| | Burlington | 5 | 4 | 1 | 25% | | 21 |
| | Burlington | 1 | | 1 | | 0 | 1 |
| ÷ | Gloucester | 242 | 241 | 1 | 0% | - | 921 |
| | | 18 | 18 | | 0% | | |
| | Ocean | | 10 | 0 | 0% | | 90 |
| | Cape May | 11 3 | 4 | 0 | -25% | 8 | 31 17 |
| | Burlington | 23 | - | | | - | |
| | Cape May | | 24 | -1 | -4% | 20 | 81 |
| | Atlantic | 25 | 27 | -2 | -7% | 16 | 65 |
| | Burlington | 26 | 28 | -2 | -7% | | 115 |
| | Burlington | 18 | 21 | -3 | -14% | 41 | 162 |
| | Camden | 23 | 26 | -3 | -12% | 23 | 93 |
| | Burlington | 4 | 8 | -4 | -50% | | 16 |
| | Atlantic | 9 | 14 | -5 | -36% | | 25 |
| | Atlantic | 11 | 16 | -5 | -31% | | 48 |
| | Ocean | 20 | 25 | -5 | -20% | | 148 |
| | Camden | 23 | 28 | -5 | -18% | | 138 |
| | Atlantic | 16 | 22 | -6 | -27% | | 72 |
| Franklin | Gloucester | 126 | 139 | -13 | -9% | | 401 |
| Medford | Burlington | 29 | 52 | -23 | -44% | 73 | 291 |
| Berkeley | Ocean | 128 | 188 | -60 | -32% | 173 | 693 |
| Little Egg Harbor | Ocean | 315 | 379 | -64 | -17% | 406 | 1,625 |
| Evesham I | Burlington | 135 | 217 | -82 | -38% | 312 | 1,246 |
| Manchester | Ocean | 17 | 109 | -92 | -84% | 209 | 834 |
| | Cape May | 55 | 196 | -141 | -72% | | 337 |
| | Ocean | 507 | 662 | -155 | -23% | | 1,819 |
| | Atlantic | 619 | 781 | -162 | -21% | | 2,611 |
| | Atlantic | 164 | 357 | -193 | | | 1,177 |
| | Ocean | 201 | 786 | -585 | -74% | | 2,157 |
| "Outside" Munis | | 201 | | | | | 2,107 |
| | Atlantic | 5 | 4 | 1 | 25% | 5 | 21 |
| | Burlington | 13 | 12 | 1 | 8% | | 81 |
| · • | Burlington | 23 | 26 | -3 | -12% | | 75 |
| | Cumberland | 114 | 179 | -65 | -12 % | | 569 |
| | Camden | 104 | 308 | -05 -204 | -30% | | 509 |

Table R1Residential Building Permits10

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.

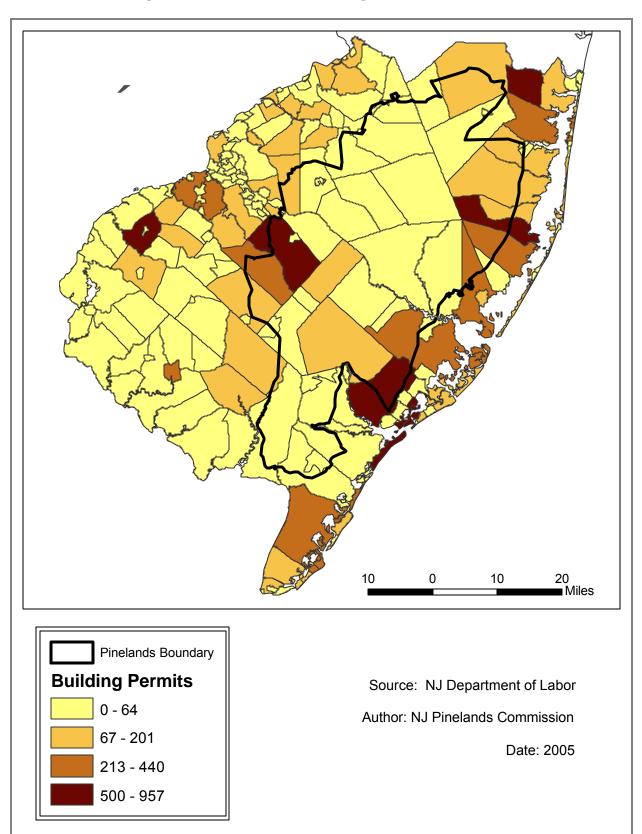
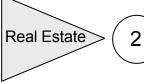


Figure R1 Residential Building Permits Issued 2004



Residential Real Estate Transactions

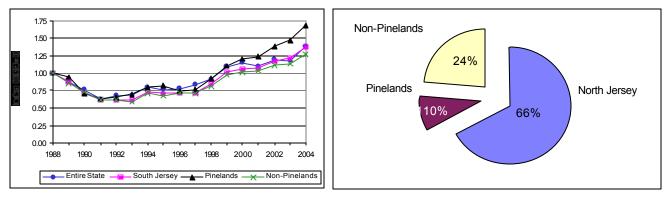
NJ Dept of Treasury, Div of Taxation 1988 – 2004

The real estate market experienced dramatic increases in all areas of the state in 2004. Pinelands communities posted their 8th consecutive year of growth in real estate transactions.

Index of Residential Property Transactions

Percentage of Total Housing Transactions by Region

X Updated



<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 1991 to 1996 followed by more substantial increases through 2003.

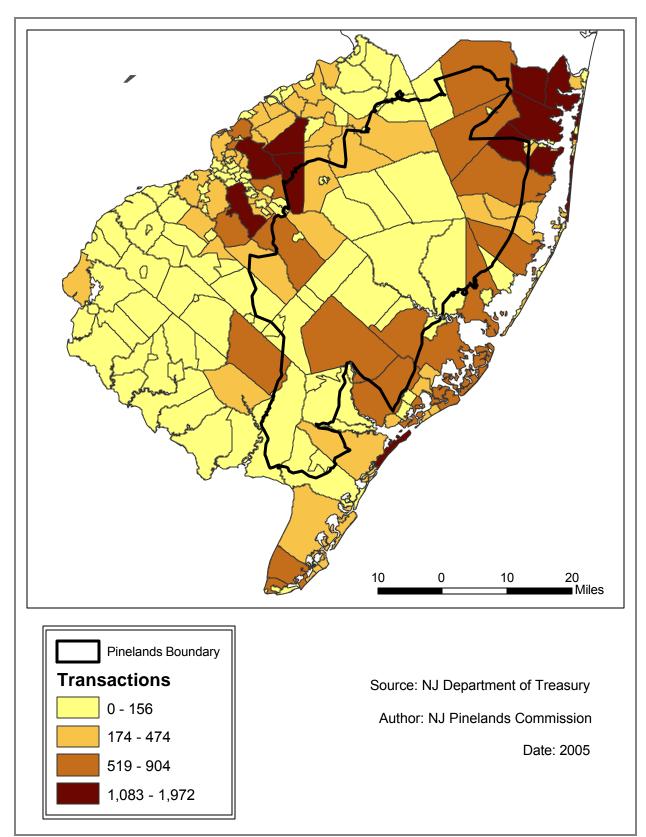
Update:

The number of residential transactions increased dramatically in all regions in 2004, posting the largest percentage increase in activity since 1999 (all regions of the state increased by 20% that year). Transactions increased statewide by 17.5% in 2004. In South Jersey, the Pinelands (+15.3%) grew at a quicker rate than the Non-Pinelands (+12.4%) for the 5th consecutive year.

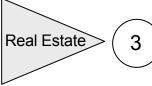
The geographic pattern of transaction activity in the Pinelands remained the same with Berkeley, Evesham, Jackson, and Galloway again holding the top four spots for number of transactions. As is the case with building permits, much of the activity in real estate transactions is occurring on the fringes of the Pinelands (Figure R2). Ocean County continues to experience phenomenal growth. Four of the top five Pinelands municipalities in absolute growth in real estate transactions were in Ocean County in 2004 – Berkeley, Jackson, Stafford, and Lacey (Table R2). Southampton in Burlington County was second in absolute growth in transactions with 231, a 255% increase over 2003.

| Municipality | County | 2004 | 2003 | Change | % Change | 5 Year Avg |
|--------------------------|-------------------|-------|-------|----------|----------|------------|
| Berkeley | Ocean | 1,225 | 1,052 | 173 | - | 1,002 |
| Southampton | Burlington | 231 | 65 | 166 | | 167 |
| Jackson | Ocean | 901 | 739 | 162 | 22% | 751 |
| Stafford | Ocean | 690 | 551 | 139 | 25% | 476 |
| Lacey | Ocean | 685 | 574 | 111 | 19% | 563 |
| Egg Harbor Township | Atlantic | 697 | 588 | 109 | | 513 |
| Evesham | Burlington | 1,083 | 979 | 103 | 11% | 916 |
| Barnegat | Ocean | 414 | 321 | 93 | 29% | 315 |
| Pemberton Township | Burlington | 411 | 332 | | 29% | 305 |
| Winslow | Camden | 796 | 717 | 79 | 11% | 634 |
| Beachwood | Ocean | 216 | 153 | 63 | 41% | 181 |
| | | | | | 41% | |
| Monroe | Gloucester | 418 | 365 | 53 | | 334 |
| Plumsted | Ocean | 102 | 63 | 39 | 62% | 75 |
| Waterford | Camden | 184 | 148 | 36 | 24% | 143 |
| Lakehurst | Ocean | 60 | 26 | 34 | 131% | 31 |
| Manchester | Ocean | 579 | 551 | 28 | | 559 |
| Medford | Burlington | 423 | 395 | 28 | 7% | 389 |
| Little Egg Harbor | Ocean | 588 | 562 | 26 | 5% | 535 |
| South Toms River | Ocean | 66 | 41 | 25 | 61% | 47 |
| Hamilton | Atlantic | 519 | 495 | 24 | 5% | 427 |
| Mullica | Atlantic | 68 | 44 | 24 | 55% | 52 |
| Shamong | Burlington | 88 | 64 | 24 | 38% | 79 |
| Ocean | Ocean | 174 | 151 | 23 | 15% | 156 |
| Egg Harbor City | Atlantic | 70 | 51 | 19 | 37% | 50 |
| Galloway | Atlantic | 881 | 864 | 17 | 2% | 750 |
| Eagleswood | Ocean | 31 | 19 | 12 | 63% | 20 |
| Buena | Atlantic | 45 | 37 | 8 | 22% | 33 |
| Chesilhurst | Camden | 16 | 8 | 8 | 100% | 11 |
| New Hanover | Burlington | 8 | 1 | 7 | 700% | 7 |
| Buena Vista | Atlantic | 33 | 28 | 5 | 18% | 34 |
| Estell Manor | Atlantic | 17 | 13 | 4 | 31% | 16 |
| Bass River | Burlington | 13 | 9 | 4 | 44% | 10 |
| Upper | Cape May | 203 | 199 | 4 | 2% | 171 |
| Woodland | Burlington | 16 | 13 | 3 | 23% | 12 |
| Port Republic | Atlantic | 15 | 13 | 2 | 15% | 12 |
| Folsom | Atlantic | 21 | 20 | 1 | 5% | 15 |
| Berlin Township | Camden | 62 | 63 | -1 | -2% | 55 |
| Weymouth | Atlantic | 6 | 8 | -2 | -25% | 15 |
| Washington | Burlington | 2 | 4 | -2 | -50% | |
| Wrightstown | Burlington | 0 | 2 | -2 | -100% | |
| Franklin | Gloucester | 154 | 156 | -2 | -1% | 120 |
| Woodbine | Cape May | | 8 | -2 -4 | -50% | 5 |
| Maurice River | Cumberland | 4 | 32 | -4 -6 | | 26 |
| Medford Lakes | Burlington | 66 | 73 | -0 -7 | -19% | 76 |
| | | | | | | |
| Dennis Tabarnaala | Cape May | 67 | 77 | -10 | | 76 |
| Tabernacle | Burlington | 85 | 97 | -12 | -12% | 89 |
| Hammonton | Atlantic | 129 | 148 | -19 | -13% | 114 |
| "Outside" Municipalities | Overale a divisio | 500 | 10.1 | | 0.40/ | 470 |
| Vineland | Cumberland | 596 | 481 | 115 | | 478 |
| Berlin Borough | Camden | 103 | 89 | 14 | 16% | 82 |
| North Hanover | Burlington | 16 | 15 | 1 | 7% | 18 |
| Corbin City | Atlantic | 0 | 3 | -3 | | 2 |
| Springfield | Burlington | 26 | 29 | -3 | -10% | 25 |

Table R2 Residential Housing Transactions



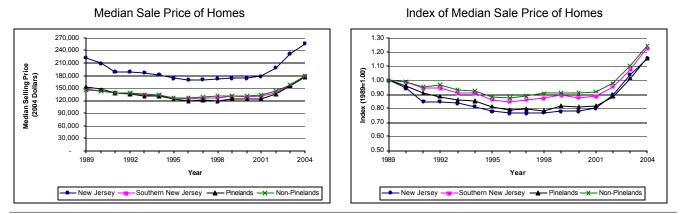




Median Selling Price of Homes IV Updated

NJ Dept of Treasury, Division of Taxation 1989 – 2004

• Housing prices increased substantially again in 2004. The median sale price of homes grew faster in the Pinelands than in the Non-Pinelands for the third consecutive year.



<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 2004 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 1990's 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. 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:

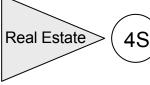
The median sales price of homes continued to significantly increase for all regions in 2004, posting double-digit percentage increases for the second year in a row. The median inflation-adjusted sales price rose by 14.3% in the Pinelands, outperforming both the statewide and Non-Pinelands increases (11.3% and 13.1% respectively) for the year. The median sales price for a home in the Pinelands was \$176,000 in 2004 compared to \$180,000 for the Non-Pinelands.

The gap between the Pinelands and Non-Pinelands home values continues to narrow. In 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 2004 was only 2.3% lower than the Non-Pinelands.

| Municipality | County | Median Sales Price | South Jersey Rank |
|--------------------------|------------|--------------------|-------------------|
| Shamong | Burlington | \$307,150 | 27 |
| Medford | Burlington | \$292,000 | 29 |
| Tabernacle | Burlington | \$280,000 | 33 |
| Plumsted | Ocean | \$271,000 | 35 |
| Port Republic | Atlantic | \$268,000 | 36 |
| Stafford | Ocean | \$259,900 | 37 |
| Upper | Cape May | \$250,000 | 40 |
| Jackson | Ocean | \$249,000 | 44 |
| Medford Lakes | Burlington | \$231,250 | 47 |
| Lacey | Ocean | \$224,000 | 55 |
| Bass River | Burlington | \$222,500 | 57 |
| Eagleswood | Ocean | \$220,000 | 59 |
| Woodland | Burlington | \$213,500 | 63 |
| Beachwood | Ocean | \$205,000 | 66 |
| New Hanover | Burlington | \$202,500 | 69 |
| Dennis | Cape May | \$200,000 | 70 |
| Evesham | Burlington | \$191,900 | 73 |
| Barnegat | Ocean | \$190,000 | 78 |
| Ocean | Ocean | \$189,000 | 76 |
| Manchester | Ocean | \$175,000 | 87 |
| Estell Manor | Atlantic | \$175,000 | 87 |
| Little Egg Harbor | Ocean | \$175,000 | 87 |
| Egg Harbor Township | Atlantic | \$170,000 | 91 |
| | | | 99 |
| Berkeley | Ocean | \$163,000 | 104 |
| Monroe | Gloucester | \$157,000 | |
| Southampton | Burlington | \$155,000 | 106 109 |
| South Toms River | Ocean | \$151,500 | |
| Waterford | Camden | \$149,200 | 112 |
| Franklin | Gloucester | \$148,200 | 113 |
| Lakehurst | Ocean | \$146,500 | 116 |
| Winslow | Camden | \$142,700 | 122 |
| Folsom | Atlantic | \$142,000 | 123 |
| Buena Vista | Atlantic | \$140,000 | 124 |
| Berlin Township | Camden | \$139,450 | 128 |
| Pemberton Township | Burlington | \$137,000 | 133 |
| Washington | Burlington | \$132,400 | 141 |
| Hammonton | Atlantic | \$130,000 | 143 |
| Galloway | Atlantic | \$130,000 | 143 |
| Hamilton | Atlantic | \$128,000 | 146 |
| Mullica | Atlantic | \$126,750 | 147 |
| Woodbine | Cape May | \$124,900 | 155 |
| Egg Harbor City | Atlantic | \$123,500 | 157 |
| Chesilhurst | Camden | \$121,900 | 160 |
| Buena | Atlantic | \$117,000 | 166 |
| Weymouth | Atlantic | \$95,375 | 182 |
| Maurice River | Cumberland | \$92,100 | 184 |
| Wrightstown | Burlington | No Sales | N/A |
| "Outside" Municipalities | Ŭ | | |
| Springfield | Burlington | \$338,000 | 21 |
| North Hanover | Burlington | \$281,200 | 32 |
| Berlin Borough | Camden | \$182,900 | 81 |
| Vineland | Cumberland | \$124,000 | 156 |
| Corbin City | Atlantic | No Sales | N/A |

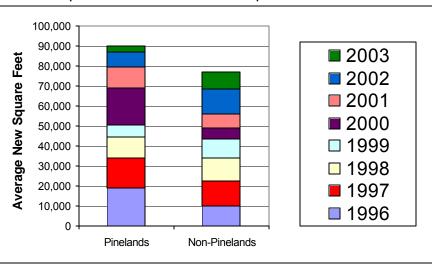
Table RE3Median Home Values - 2004





New Retail Space in Square Feet New NJ Dept of Community Affairs, Div of Codes & Standards

 Average New Retail Space in the Pinelands outpaced the Non-Pinelands by 17% in the eight-year period from 1996 to 2003.



Square Feet of New Retail Space 1996 – 2003

<u>Description</u>: Building permit activity for non-residential uses is reported in square feet instead of the absolute number of units as in residential permits. New retail space includes the square footage of both completely new structures as well as any new square footage added to existing structures.

<u>Unit of Analysis</u>: Municipal level data are aggregated to allow for inside/outside Pinelands analyses. The aggregation method calculates the sum of retail space in square feet for the period 1996 to 2003 for each municipality in South Jersey.

Supplemental Data:

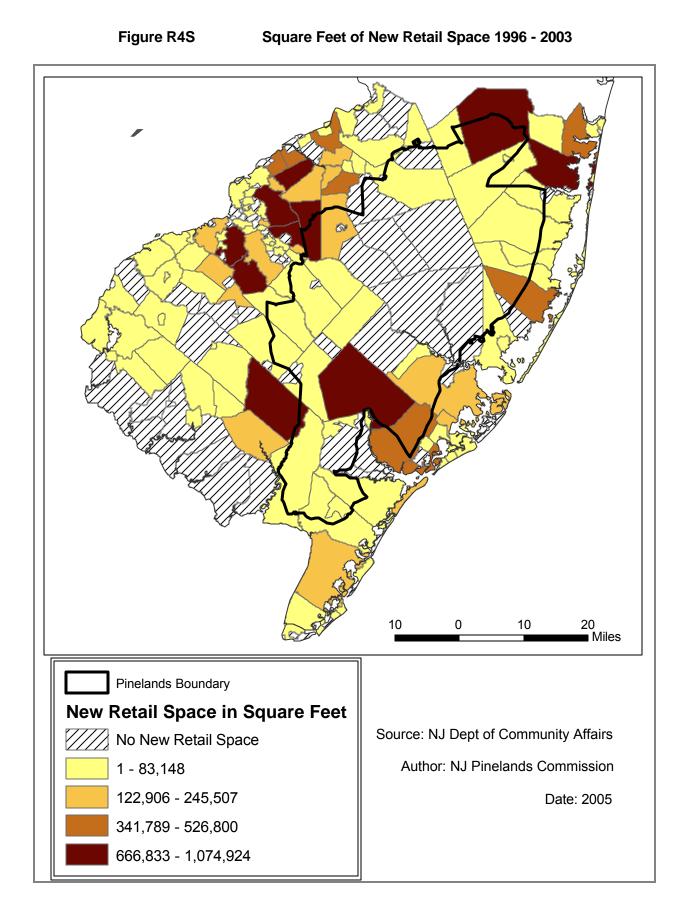
The Pinelands has fared comparatively well with the Non-Pinelands in retail growth over the past eight years. Statistics from the 2002 Census of Retail Trade show retail sales in the Pinelands have increased at twice the rate as the Non-Pinelands have from 1997-2002 (+20.7% for the Pinelands versus 11.2% for the Non-Pinelands. See core variable E4 for more details). This growth in sales has spurred new growth in retail space. From 1996-2003, Pinelands municipalities issued permits averaging 90,107 square feet of new retail space. The Non-Pinelands municipalities averaged 17% less over the same period, issuing permits for an average of 77,190 square feet of new retail space.

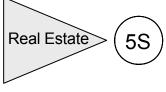
By its nature, retail space tends to be clustered in nodes that serve adjacent residential populations. For example, in the Pinelands, 17 of the 47 municipalities did not issue permits for any new retail space during the period 1996 to 2003, while 80% of the new retail space was concentrated in five municipalities. It is also of some interest to note the range of activity among those municipalities that did have new retail space. Of the 30 Pinelands municipalities with retail activity over the period, 8 municipalities exceeded 150,000 square feet of new space while the remaining 22 municipalities all had minor growth of less than 50,000 square feet of new space (see Table R4S and Figure R4S). The following Pinelands municipalities all ranked in the top 10 percent of South Jersey for retail growth in the past eight years: Hamilton (ranked 1st with over 1 million square feet of new retail space), Evesham (7th with 740,000 sq. ft), Jackson (8th with 715,000 sq. ft), Egg Harbor Township (12th with almost 500,000 sq. ft.), and Stafford (17th with 350,000 sq. ft.). In the Non-Pinelands, an approximately equal percentage of municipalities (66 of 155, or 43%) also issued no new retail space permits over the same period. The top 10% of Non-Pinelands municipalities accounted for 78% of the new retail space in that region, with Dover and Deptford leading the way each with over 1 million square feet of new space.

Figure 4S gives a fairly good representation of the growth of retail centers in South Jersey from 1996 to 2003. An overwhelming majority of the growth in retail space has been concentrated in three geographic areas: the Philadelphia suburbs that border the central western portion of the Pinelands have added 4.8 million new square feet of retail space over the eight years and include the following municipalities: Deptford, Cherry Hill, Voorhees, Evesham, Moorestown, and Washington Township (Gloucester County). The second major retail growth center has been on both sides of the southern border of the Pinelands comprised of Hamilton, Egg Harbor Township, and Vineland. These three municipalities added 2.4 million new square feet of retail space from 1996 to 2003. Finally, on the northeastern border of the Pinelands, Jackson and Dover have together added 1.8 million square feet of new retail space over the eight-year period. It is interesting to note that a large swath of contiguous area in the heart of the Pinelands added no new retail space in the same period. These municipalities make up a large portion of the preservation district in the Pinelands.

Table R4SNew Retail Space 1996 - 2003

| Municipality | County | New Retail Space in Square Feet | South Jersey Rank |
|--------------------------|----------------------|---------------------------------|-------------------|
| Hamilton | Atlantic | 1,074,924 | 1 |
| Evesham | Burlington | 742,250 | 7 |
| Jackson | Ocean | 715,782 | 8 |
| Egg Harbor Township | Atlantic | 496,088 | 12 |
| Stafford | Ocean | 348,213 | 17 |
| Galloway | Atlantic | 156,199 | 27 |
| Medford | Burlington | 151,768 | 28 |
| Berlin Township | Camden | 151,264 | 29 |
| Monroe | Gloucester | 47,844 | 44 |
| Winslow | Camden | 44,226 | 46 |
| Dennis | Cape May | 42,967 | 48 |
| Hammonton | Atlantic | 39,858 | 49 |
| Berkeley | Ocean | 36,831 | 50 |
| Franklin | Gloucester | 36,057 | 51 |
| Lacey | Ocean | 28,403 | 55 |
| Egg Harbor City | Atlantic | 24,047 | 58 |
| Manchester | Ocean | 22,870 | 60 |
| Plumsted | Ocean | 20,439 | 63 |
| Waterford | Camden | 15,180 | 71 |
| Little Egg Harbor | Ocean | 10,752 | 80 |
| Ocean | Ocean | 10,732 | 82 |
| Maurice River | Cumberland | 8,156 | 89 |
| Buena Vista | Atlantic | 3,474 | 99 |
| Woodbine | Cape May | 2,500 | 101 |
| | Cape May Cape May | 1,276 | 107 |
| Upper Bernoget | Ocean | 1,276 | 110 |
| Barnegat | | 928 | 112 |
| Pemberton Township | Burlington | | |
| Lakehurst | Ocean | 760 | 113 |
| Weymouth | Atlantic | 210 | 116 |
| Wrightstown | Burlington | 64 | 119 |
| Buena | Atlantic | 0 | 120 |
| Estell Manor | Atlantic | 0 | 120 |
| Folsom | Atlantic | 0 | 120 |
| Mullica | Atlantic | 0 | 120 |
| Port Republic | Atlantic | 0 | 120 |
| Bass River | Burlington | 0 | 120 |
| Medford Lakes | Burlington | 0 | 120 |
| New Hanover | Burlington | 0 | 120 |
| Shamong | Burlington | 0 | 120 |
| Southampton | Burlington | 0 | 120 |
| Tabernacle | Burlington | 0 | 120 |
| Washington | Burlington | 0 | 120 |
| Woodland | Burlington | 0 | 120 |
| Chesilhurst | Camden | 0 | 120 |
| Beachwood | Ocean | 0 | 120 |
| Eagleswood | Ocean | 0 | 120 |
| South Toms River | Ocean | 0 | 120 |
| "Outside" Municipalities | | | |
| Vineland | Cumberland | 790,643 | 5 |
| Springfield | Burlington | 62,670 | 40 |
| Berlin Borough | Camden | 25,596 | 56 |
| North Hanover | Burlington | 1,152 | 111 |
| Corbin City | Atlantic | 0 | 120 |

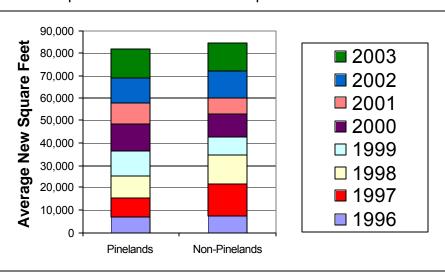




New Office Space in Square Feet 🛛 New

NJ Dept of Community Affairs, Div of Codes & Standards 1996 – 2003

• The growth in new office space in South Jersey from 1996 – 2003 occurred primarily on the northwest, northeast, southwest, and southeast fringes of the Pinelands boundary.



Square Feet of New Office Space 1996 – 2003

<u>Description</u>: Building permit activity for non-residential uses is reported in square feet instead of the absolute number of units as in residential permits. New office space includes the square footage of both completely new structures as well as any new square footage added to existing structures.

<u>Unit of Analysis</u>: Municipal level data are aggregated to allow for inside/outside Pinelands analyses. The aggregation method calculates the sum of office space in square feet for the period 1996 to 2003 for each municipality in South Jersey.

Supplemental Data:

The comparison of the Pinelands and Non-Pinelands in respect to new office space between 1996 and 2003 is complicated by the inclusion of Mount Laurel in Burlington County, which by itself accounted for 13% of the new office space in all of South Jersey over the period. Mount Laurel added an astonishing 2.2 million square feet of new office space from 1996 to 2003 – by comparison, Dover Township, which ranked 2nd in South Jersey over that time, added about a third of that amount with 830,000 square feet of new office space. Mount Laurel is ideally situated as an office center, resting at the intersection of four major north/south (the NJ Turnpike and Interstate 295) and east/west highways (Routes 38 and 73). As a result they are the headquarters for a number of major corporations including Lockheed Martin, Okidata, and NFL Films. The Delaware Valley Regional Planning Commission estimates that the transient work force in Mount Laurel numbers 60,000 between 9am and 5pm during the work week and may climb as high as 100,000 by 2010. By contrast, the resident population of Mount Laurel in 2003 was slightly more than 40,000 people.

The chart above details the average square feet of building permits for new office space from 1996-2003 and includes Mount Laurel, as well as the other 201 municipalities in Southern New Jersey. The average for Pinelands' municipalities for the period was 81,533 new square feet. The Non-Pinelands municipality average was 4% higher at 84,704 square feet of new office space. However, if the data is examined with the Mount Laurel numbers removed, the average for the Non-Pinelands region falls to 70,794 square feet of new office space, a figure that is 15% lower than the Pinelands for the eight-year period.

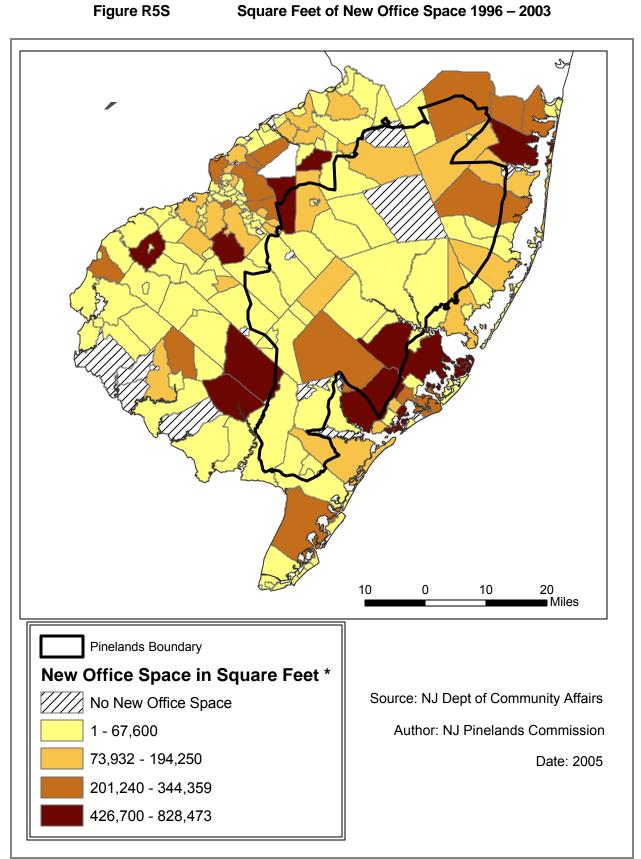
Despite the overwhelming dominance of Mount Laurel, the pattern of new office space is much less concentrated than it is for new retail space. Only 15% (7 of the 47) of Pinelands municipalities had no activity in office space

permits from 1996-2003 while 17% (27 of 155) of the Non-Pinelands municipalities did not issue any new office space permits. The concentration of the top municipalities is also lower for new office space than it is for new retail space. The top five Pinelands municipalities accounted for 52% of the new office space from 1996 to 2003, while the same percentage of the top Non-Pinelands municipalities make up 64% of the new office space in that region. When Mount Laurel is removed, that figure drops to 56% for the Non-Pinelands region. The range of activity is also less concentrated for office space in comparison to retail space. Of the 40 Pinelands municipalities issuing permits for new office space for the period, 14 exceeded 100,000 square feet of space while 22 had minor activity with less than 50,000 new square feet of space.

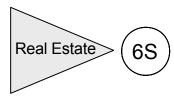
The majority of the growth in office space in South Jersey from 1996 to 2003 can be separated into four distinct regions. These are located on the fringe of the Pinelands at the northwest, northeast, southwest, and southeast corners of the Pinelands boundary (Figure R5S). The largest of these areas by far is on the northwest fringe of the Pinelands surrounding Mount Laurel that includes Evesham, Moorestown, Maple Shade, Cherry Hill, Voorhees, and Lumberton. Those 7 municipalities lie directly in the Philadelphia/New York corridor and have added 4.4 million square feet of new office during the past eight years. On the northeast fringe of the Pinelands, Jackson, Lakewood, Brick, and Dover combined have added 1.8 million square feet of new office space from 1996-2003. On the southwest border of the Pinelands, Millville and Vineland together have added 1 million square feet of new office space during the same time period. Finally, in the southeast section of the Pinelands, Galloway, Egg Harbor Township, and Hamilton have added 1.1 million square feet of new office space over the same eight-year period. Though it is impossible to say exactly how much of the growth in these three towns had occurred inside the Pinelands boundary, all three municipalities have substantial portions of their land area in regional growth areas. It may not be crucial to differentiate between inside/outside categories here considering that ratables derived from office or retail space are shared by the entire community regardless of their location with respect to the Pinelands boundary.

Table R5SNew Office Space 1996 - 2003

| Municipality | County | New Office Space in Square Feet | South Jersey Rank |
|--------------------------|-------------------|---------------------------------|-------------------|
| Evesham | Burlington | 574,188 | 4 |
| Galloway | Atlantic | 474,097 | 7 |
| Egg Harbor Township | Atlantic | 427,901 | 9 |
| Jackson | Ocean | 268,933 | 18 |
| Lacey | Ocean | 253,780 | 21 |
| Hamilton | Atlantic | 214,524 | 25 |
| Stafford | Ocean | 178,522 | 28 |
| Little Egg Harbor | Ocean | 162,934 | 30 |
| Berlin Township | Camden | 157,547 | 34 |
| Berkeley | Ocean | 130,470 | 39 |
| Upper | Cape May | 118,757 | 40 |
| Medford | Burlington | 114,571 | 41 |
| Hammonton | Atlantic | 108,048 | 43 |
| Pemberton Township | Burlington | 103,866 | 44 |
| Manchester | | 76,775 | 51 |
| Dennis | Ocean Cape May | 65,806 | 51 |
| Monroe | Gloucester | 58,060 | 57 |
| Woodbine | Cape May | 58,060 | 62 |
| | | | |
| Franklin | Gloucester | 49,191 | 65 |
| Maurice River | Cumberland | 39,404 | 71 |
| Winslow | Camden | 36,704 | 73 |
| Plumsted | Ocean | 32,464 | 80 |
| Folsom | Atlantic | 29,158 | 85 |
| Barnegat | Ocean | 13,477 | 102 |
| Southampton | Burlington | 11,816 | 106 |
| Egg Harbor City | Atlantic | 11,780 | 107 |
| Bass River | Burlington | 11,304 | 108 |
| Buena Vista | Atlantic | 10,756 | 109 |
| Buena | Atlantic | 9,640 | 113 |
| Estell Manor | Atlantic | 7,685 | 118 |
| Waterford | Camden | 6,508 | 123 |
| Medford Lakes | Burlington | 6,298 | 125 |
| Lakehurst | Ocean | 5,849 | 127 |
| Eagleswood | Ocean | 4,980 | 131 |
| Ocean | Ocean | 1,280 | 150 |
| Washington | Burlington | 800 | 157 |
| Port Republic | Atlantic | 574 | 160 |
| Tabernacle | Burlington | 517 | 161 |
| Shamong | Burlington | 450 | 162 |
| Mullica | Atlantic | 414 | 163 |
| Weymouth | Atlantic | 0 | 169 |
| New Hanover | Burlington | 0 | 169 |
| Woodland | Burlington | 0 | 169 |
| Wrightstown | Burlington | 0 | 169 |
| Chesilhurst | Camden | 0 | 169 |
| Beachwood | Ocean | 0 | 169 |
| South Toms River | Ocean | 0 | 169 |
| "Outside" Municipalities | | | - |
| Vineland | Cumberland | 569,407 | 5 |
| Berlin Borough | Camden | 99,280 | 46 |
| North Hanover | Burlington | 28,191 | 87 |
| Springfield | Burlington | 1,498 | 149 |
| | Barnigton | 1,700 | |



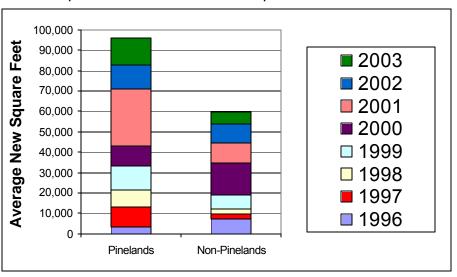
* This range excludes Mount Laurel, Burlington County, because it is an extreme outlier.



New School Space in Square Feet 🗵 New

NJ Dept of Community Affairs, Div of Codes & Standards 1996 – 2003

 Average New School Space in the Pinelands is 60% higher than in the Non-Pinelands over the past eight years.



Square Feet of New School Space 1996 - 2003

<u>Description</u>: Building permit activity for non-residential uses is reported in square feet instead of the absolute number of units as in residential permits. New school space includes the square footage of both completely new structures as well as any new square footage added to existing structures. This category of permit data includes all education facilities from grades K through 12, and does not differentiate between public and private schools.

<u>Unit of Analysis</u>: Municipal level data are aggregated to allow for inside/outside Pinelands analyses. The aggregation method calculates the sum of new school space in square feet for the period 1996 to 2003 for each municipality in South Jersey.

Supplemental Data:

The effect of the relative population growth in the Pinelands versus the Non-Pinelands over the past decade becomes more apparent when examining school infrastructure needs. According to population estimate data, the Pinelands population increased 15.5% between 1993 and 2003; the Non-Pinelands experienced roughly half that rate of growth over the same period with an 8.3% increase in population. As a result, the Pinelands municipalities have had more activity in building permits for new school space for the years from 1996 to 2003. The Pinelands municipality average for the eight-year period was 95,735 square feet of new school space. That figure is 60% higher than the 59,791 square feet of new school space in the average Non-Pinelands municipality during the same time.

Several Pinelands communities have had substantial growth in new school activity from 1996 to 2003, with 7 of the 47 municipalities ranking in the top 10% in Southern New Jersey in this category: Egg Harbor Township 4th, Evesham 6th, Stafford 7th, Winslow 10th, Jackson 15th, Hamilton 16th, and Hammonton 17th (Table R6Sa). Of the 34 Pinelands municipalities that issued new school building permits, 47% (16 municipalities) authorized permits in excess of 100,000 square feet of space. In the Non-Pinelands, 91 municipalities issued new school building permits over the same period, but only 30% (27 municipalities) of those required new school space in excess of 100,000 square feet. However, 6 of the top 10 fastest growing municipalities in regard to new school space from 1996-2003 were outside of the Pinelands (Harrison, Gloucester, Atlantic City, Dover, Washington Township in Gloucester County, and Pleasantville).

The brisk pace of growth in new school building permits has been of particular concern in some Pinelands municipalities due to the tremendous construction costs associated with this new infrastructure. Figure R6S demonstrates a line of intense new school growth that extends from the Philadelphia suburbs of western Camden County through the Pinelands and into the shore towns of Atlantic County. It should be noted that a number of the communities that are situated to the west of the Pinelands boundary are approaching "build-out", and as such have not had the large population increases that necessitate the need for new schools.

While there is understandable concern about the immediate fiscal impacts associated with the construction costs and debt service of new schools, a longer-term concern of the most affected communities is whether or not the continued operating costs of these new schools can be absorbed by the local taxpayers and municipal economies. Data from the previous two supplemental variables can help address that question. Table R6Sb shows the comparative building activity for new schools from 1996-2003 alongside the growth in ratables as measured by the total amount of new square feet in retail and office space over the same time frame. While no claim is being made as to how many square feet of new retail/office space is needed to support a square foot of new school space, it is clear that taxpayers in communities that have experienced growth in ratables will be in a better position than those communities where new school growth will be funded entirely or mostly by the residential population. When examined in this light, the effects of new school growth in the Pinelands for the long-term become quite different than the short-term costs associated with new construction.

For example, Egg Harbor Township, in addition to its almost 600,000 square feet of new school space, has added 925,000 square feet of retail/office space from 1996-2003. The tax revenues from these new ratables will help mitigate the costs to taxpayers of operating this new school space over the long-term. In contrast, municipalities that have added substantial new school space without a concurrent increase in their ratables base will have fewer options in how they will finance the new costs associated with these schools. Absent other revenue sources, the residential taxpaying population of these towns may be forced to bear these added costs in higher taxes. In the Pinelands from 1996-2003, Plumsted, Beachwood, Tabernacle, and Winslow have added an average of 217,000 square feet of new school space while increasing their ratables bases by an average of only 34,000 square feet of new space (Table R6Sb). It should be noted that some of these municipalities (Tabernacle, for example) have schools that participate in a regional sending district and thus share some of the costs with taxpayers in surrounding municipalities that are sending children to the same district. For example, at the high school level the Lenape Regional High School district includes children from Evesham, Medford, Medford Lakes, Mount Laurel, Shamong, Southampton, Tabernacle, and Woodland. However, for those who do not have such regional sharing of education costs (Plumsted, for example), rapid growth presents a real challenge to controlling taxes while providing the same level of education.

Table R6SaNew School Space 1996 – 2003

| Municipality | County | New School Space in Square Feet | South Jersey Rank |
|----------------------------|--------------------|---------------------------------|-------------------|
| Egg Harbor Township | Atlantic | 591,959 | 3 |
| Evesham | Burlington | 499,284 | 6 |
| Stafford | Ocean | 395,659 | 7 |
| Winslow | Camden | 308,109 | 10 |
| Jackson | Ocean | 253,478 | 15 |
| Hamilton | Atlantic | 246,928 | 16 |
| Hammonton | Atlantic | 240,460 | 17 |
| Lacey | Ocean | 217,589 | 21 |
| Galloway | Atlantic | 216,330 | 23 |
| Tabernacle | Burlington | 215,174 | 24 |
| Beachwood | Ocean | 194,382 | 27 |
| Berkeley | Ocean | 177,104 | 32 |
| Medford | Burlington | 176,360 | 33 |
| Little Egg Harbor | Ocean | 158,903 | 35 |
| Plumsted | Ocean | 151,350 | 36 |
| Dennis | Cape May | 100,859 | 43 |
| Barnegat | Ocean | 65,881 | 51 |
| Mullica | Atlantic | 40,063 | 65 |
| Ocean | Ocean | 39,502 | 66 |
| Manchester | Ocean | 39,062 | 67 |
| Pemberton Township | Burlington | 29,416 | 74 |
| Monroe | Gloucester | 28,530 | 75 |
| Maurice River | Cumberland | 28,330 | 76 |
| Upper | Cape May | 21,664 | 84 |
| Buena Vista | Atlantic | 19,148 | 85 |
| Estell Manor | Atlantic | 14,058 | 92 |
| Egg Harbor City | Atlantic | 12,040 | 99 |
| Lakehurst | Ocean | 5,750 | 107 |
| Wrightstown | Burlington | 5,078 | 107 |
| Woodland | Burlington | 3,824 | 100 |
| Shamong | Burlington | 2,239 | 110 |
| Medford Lakes | Burlington | 510 | 122 |
| Southampton | Burlington | 240 | 122 |
| Waterford | Camden | 161 | 124 |
| Buena | Atlantic | 0 | 123 |
| Folsom | Atlantic | 0 | 127 |
| Port Republic | Atlantic | 0 | 127 |
| Weymouth | Atlantic | 0 | 127 |
| Bass River | Burlington | 0 | 127 |
| New Hanover | Burlington | 0 | 127 |
| Washington | Burlington | 0 | 127 |
| Berlin Township | Camden | 0 | 127 |
| Chesilhurst | Camden | 0 | 127 |
| Woodbine | Canden Cape May | 0 | 127 |
| Franklin | Gloucester | 0 | 127 |
| Eagleswood | Ocean | 0 | 127 |
| South Toms River | Ocean | 0 | 127 |
| | Ocean | 0 | 121 |
| "Outside" Municipalities | Cumborland | 114 624 | 11 |
| Vineland Barlin Baraugh | Cumberland | 114,624 | 41 |
| Berlin Borough | Camden | 50,957 | 56 |
| North Hanover | Burlington | 12,900 | 97 |
| Corbin City | Atlantic | 0 | 127 |
| Springfield | Burlington | 0 | 127 |

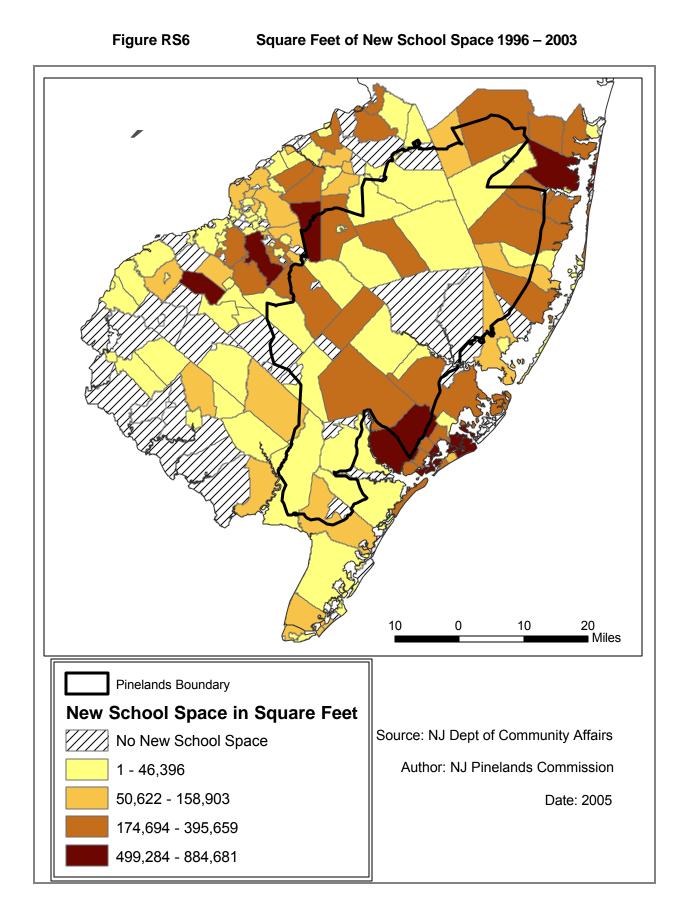
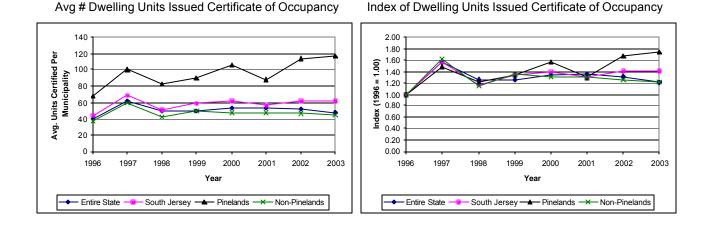


Table R6Sb New School Space versus New Ratables 1996 - 2003

| Municipality | County | Sq. Ft. of New School Space | Total Sq. Ft. of New Retail and Office Space | New Ratables Space minus New School Space |
|--------------------------------------|------------|--------------------------------|----------------------------------------------------|-------------------------------------------------|
| Hamilton | Atlantic | 246,928 | 1,289,448 | 1,042,520 |
| Evesham | Burlington | 499,284 | 1,316,438 | 817,154 |
| Jackson | Ocean | 253,478 | 984,715 | 731,237 |
| Galloway | Atlantic | 216,330 | 630,296 | 413,966 |
| Egg Harbor Township | Atlantic | 591,959 | 923,989 | 332,030 |
| Berlin Township | Camden | 0 | 308,811 | 308,811 |
| Stafford | Ocean | 395,659 | 526,735 | 131,076 |
| Upper | Cape May | 21,664 | 120,033 | 98,369 |
| Medford | Burlington | 176,360 | 266,339 | 89,979 |
| Franklin | Gloucester | 0 | 85,248 | 85,248 |
| Monroe | Gloucester | 28,530 | 105,904 | 77,374 |
| Pemberton Township | Burlington | 29,416 | 104,794 | 75,378 |
| Lacey | Ocean | 217,589 | 282,183 | 64,594 |
| Manchester | Ocean | 39,062 | 99,645 | 60,583 |
| Woodbine | Cape May | 00,002 | 54,732 | 54,732 |
| Folsom | Atlantic | 0 | 29,158 | 29,158 |
| Egg Harbor City | Atlantic | 12,040 | 35,827 | 23,787 |
| Waterford | Camden | 161 | 21,688 | 21,527 |
| Maurice River | Cumberland | 28,444 | 47,560 | 19,116 |
| Little Egg Harbor | Ocean | 158,903 | 173,686 | 14,783 |
| Southampton | Burlington | 240 | 11,816 | 11,576 |
| Bass River | Burlington | 0 | 11,304 | 11,304 |
| Buena | Atlantic | 0 | 9,640 | 9,640 |
| Dennis | | 100,859 | 108,773 | 7,914 |
| | Cape May | | | |
| Medford Lakes | Burlington | 510 | 6,298 | 5,788 |
| Eagleswood | Ocean | 0 5,750 | 4,980 | 4,980 859 |
| Lakehurst | Ocean | | 6,609 | |
| Washington | Burlington | 0 | 800 | 800 |
| Port Republic | Atlantic | 0 | 574 | 574 |
| Weymouth | Atlantic | 0 | 210 | 210 |
| New Hanover | Burlington | 0 | 0 | 0 |
| Chesilhurst | Camden | 0 | 0 | 0 |
| South Toms River | Ocean | 0 | 0 | 0 |
| Shamong | Burlington | 2,239 | 450 | -1,789 |
| Woodland | Burlington | 3,824 | 0 | -3,824 |
| Buena Vista | Atlantic | 19,148 | 14,230 | -4,918 |
| Wrightstown | Burlington | 5,078 | 64 | -5,014 |
| Estell Manor | Atlantic | 14,058 | 7,685 | -6,373 |
| Berkeley | Ocean | 177,104 | 167,301 | -9,803 |
| Ocean | Ocean | 39,502 | 11,798 | -27,704 |
| Mullica | Atlantic | 40,063 | 414 | -39,649 |
| Barnegat | Ocean | 65,881 | 14,652 | -51,229 |
| Hammonton | Atlantic | 240,460 | 147,906 | -92,554 |
| Plumsted | Ocean | 151,350 | 52,903 | -98,447 |
| Beachwood | Ocean | 194,382 | 0 | -194,382 |
| Tabernacle | Burlington | 215,174 | 517 | -214,657 |
| Winslow | Camden | 308,109 | 80,930 | -227,179 |
| "Outside" Municipalities Vineland | Cumberland | 114,624 | 1,360,050 | 1,245,426 |
| Berlin Borough | Camden | 50,957 | 124,876 | 73,919 |
| | Burlington | 0 | 64,168 | 64,168 |
| Springfield | Burlington | 12,900 | 29,343 | 16,443 |
| North Hanover | | | | |



• The Pinelands region contains 11 of the 20 fastest growing municipalities in Southern New Jersey from 1996 to 2003 as measured by construction of new residential units.



<u>Description</u>: Construction officials issue certificates of occupancy at the end of the construction process, when buildings are complete and ready for occupancy. In contrast to building permits, which establish planned growth, certificates of occupancy document actual new growth on the ground.

<u>Unit of Analysis</u>: Municipal level data are aggregated to allow for inside/outside Pinelands analyses. The aggregation method calculates the average of certificates of occupancy issued for the period 1996 to 2003 for each municipality in South Jersey.

Supplemental Data:

For a variety of reasons, not all building permits granted are eventually built. The development process can span several years from conception to completion, and economic and planning considerations often cause adjustments to what actually gets built in relation to permits granted. In examining the historical data, it is apparent that the percentage of units built in relation to the number of permits issued is not constant across municipalities. It is therefore illustrative to examine the data for certificates of occupancy issued to monitor actual growth in new units over time.

On a regional basis, the Pinelands has still exhibited higher growth in comparison to the Non-Pinelands over the past decade. On average, Pinelands municipalities issued about twice as many certificates of occupancy as the Non-Pinelands and the state as a whole from 1996 – 2001. In 2002 and 2003, growth spiked in the Pinelands and now is about three times the average for the Non-Pinelands and the rest of the state annually. From 1996 to 2003, 11 of the top 20 fastest growing municipalities for new construction were located in the Pinelands. During the same period, 28% of municipalities in the Pinelands issued more than 1,000 certificates of occupancy (13 of 47 municipalities). By comparison, only 12% of the Non-Pinelands municipalities achieved such growth (18 of 155 municipalities). It should be noted, however, that many of the Non-Pinelands municipalities are much closer to approaching "build-out" and therefore many of them have significantly less vacant developable land.

In addition, as is the case with the population estimate data, there is some question as to how many of these new units were actually constructed within the Pinelands boundary. Data is only available at the municipal level, so it is not possible with any degree of certainty to say exactly which units fall on each side of the boundary in those municipalities with only a portion of their land in the Pinelands. By dividing the Pinelands municipalities into groupings based on the percentage of their land inside the boundary, we can make an educated guess as to the actual numbers.

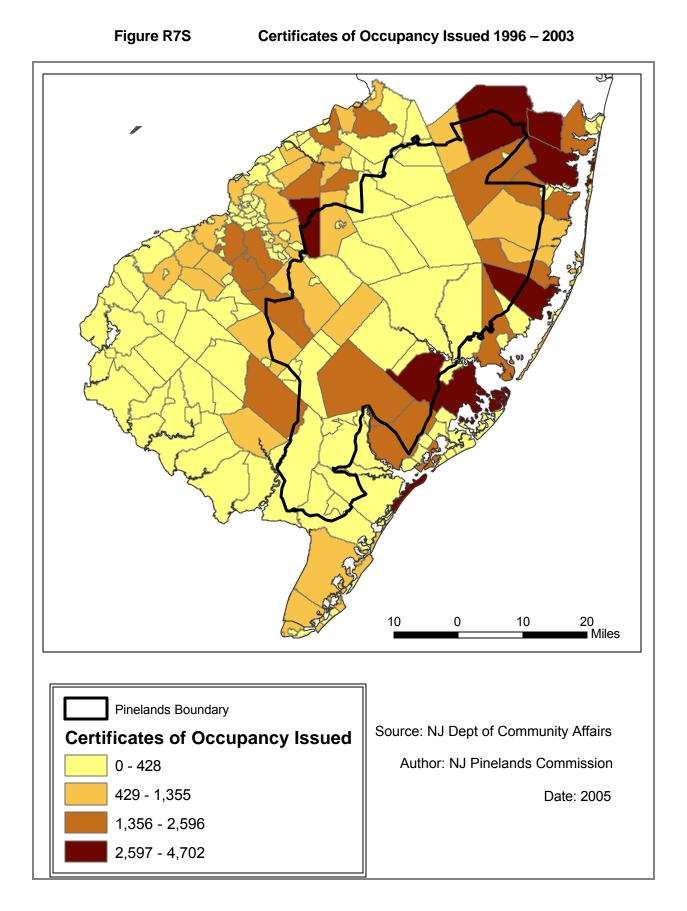
The following chart is similar to the one presented in the population estimates section and addresses this issue:

| Region (# of Municipalities) | Average # of Certificates Of Occupancy Issued from 1996 - 2003 |
|------------------------------|-------------------------------------------------------------------|
| Pinelands (47) | 765 |
| Non-Pinelands (155) | 374 |
| | |
| 100% of Land in Pines (11) | 151 |
| 55-99% of Land in Pines (19) | 824 |
| 10-54% of Land in Pines (17) | 1,096 |
| < 10% of Land in Pines (155) | 374 |

The same pattern emerges with certificates of occupancy issued as did with the population estimate data. Municipalities completely inside or outside of the Pinelands have comparatively low rates of activity in relation to those municipalities that straddle the Pinelands border. In addition, construction activity increases as the percentage of land inside the Pinelands boundary decreases for these "border" municipalities. This strongly suggests that a large portion of the construction activity is probably taking place just outside of the Pinelands boundary. A visual inspection of Southern New Jersey depicted in Figure R7S confirms that the largest areas of growth in certificates of occupancy issued over the eight-year period are located on the eastern and western borders of the Pinelands boundary. Ocean County in particular has experienced incredible growth, adding 29,763 new certified hous ing units from 1996 – 2003.

| Municipality | County | Certificates of Occupancy Issued | South Jersey Rank |
|-------------------------------|------------|----------------------------------|-------------------|
| Jackson | Ocean | 4,146 | 2 |
| Evesham | Burlington | 3,387 | 3 |
| Galloway | Atlantic | 3,191 | 4 |
| Stafford | Ocean | 2,816 | 7 |
| Manchester | Ocean | 2,381 | 12 |
| Barnegat | Ocean | 2,066 | 14 |
| Egg Harbor Township | Atlantic | 2,065 | 15 |
| Little Egg Harbor | Ocean | 1,877 | 16 |
| Monroe | Gloucester | 1,837 | 17 |
| Berkeley | Ocean | 1,835 | 18 |
| Hamilton | Atlantic | 1,590 | 20 |
| Winslow | Camden | 1,155 | 27 |
| Lacey | Ocean | 1,062 | 30 |
| Medford | Burlington | 838 | 35 |
| Franklin | Gloucester | 589 | 43 |
| Plumsted | Ocean | 558 | 45 |
| Ocean | Ocean | 532 | 40 |
| Hammonton | Atlantic | 527 | 40 |
| Southampton | Burlington | 428 | 54 |
| Upper | Cape May | 390 | 55 |
| Waterford | Camden | 372 | 56 |
| Pemberton Township | Burlington | 304 | 65 |
| Dennis | Cape May | 271 | 68 |
| | Burlington | 263 | 70 |
| Shamong Berlin Township | Camden | 203 | 70 |
| Benin Townsnip Buena Vista | | | |
| | Atlantic | 198 | 79 |
| Weymouth Mullica | Atlantic | 185 178 | 81 83 |
| | Atlantic | | |
| Tabernacle | Burlington | 124 | 97 |
| Estell Manor | Atlantic | 96 | 103 |
| Maurice River | Cumberland | 80 | 112 |
| Chesilhurst | Camden | 70 | 116 |
| Woodland | Burlington | 55 | 125 |
| Buena | Atlantic | 52 | 128 |
| Eagleswood | Ocean | 45 | 134 |
| Woodbine | Cape May | 33 | 143 |
| Beachwood | Ocean | 31 | 145 |
| Egg Harbor City | Atlantic | 24 | 153 |
| Port Republic | Atlantic | 23 | 155 |
| Folsom | Atlantic | 20 | 161 |
| New Hanover | Burlington | 17 | 166 |
| Washington | Burlington | 17 | 166 |
| Medford Lakes | Burlington | 13 | 175 |
| Lakehurst | Ocean | 3 | 192 |
| South Toms River | Ocean | 2 | 194 |
| Bass River | Burlington | 1 | 196 |
| Wrightstown | Burlington | 1 | 196 |
| "Outside" Municipalities | | | |
| Vineland | Cumberland | 1,465 | 21 |
| Berlin Borough | Camden | 448 | 52 |
| Springfield | Burlington | 167 | 84 |
| North Hanover | Burlington | 122 | 98 |
| Corbin City | Atlantic | 35 | 141 |

Table R7SCertificates of Occupancy Issued 1996 – 2003



Economy 1

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.

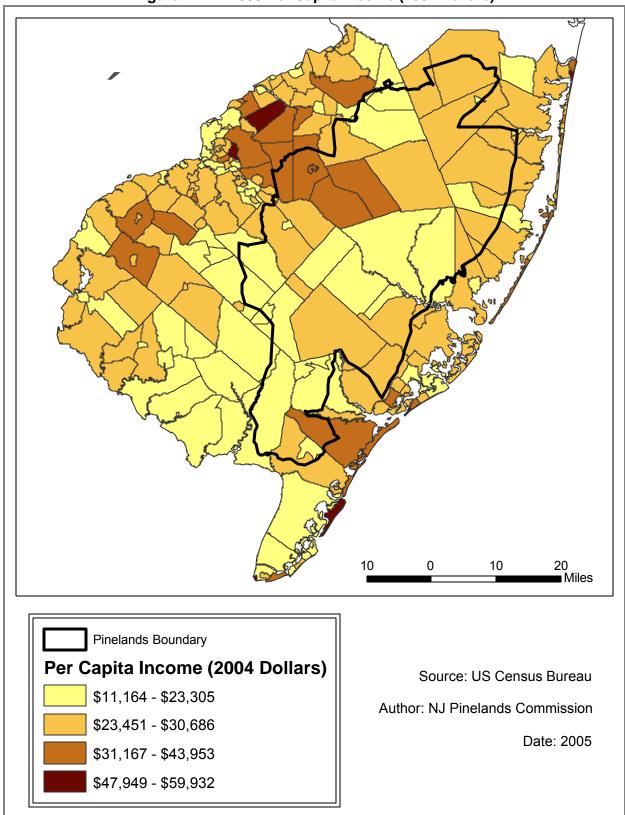


Figure E1 1999 Per Capita Income (2004 Dollars)

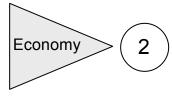
* This range excludes Mantoloking Borough, Ocean County, because it is an extreme outlier.

| 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. "Outside" Municipalities | Burlington | \$13,809 | \$13,866 | \$13,592 | 0% | 2% |
| 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% |

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

* 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

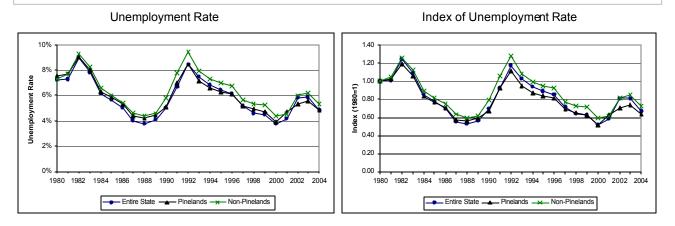


Unemployment



New Jersey Department of Labor 1980 - 2004

• After three consecutive years of modest increases across all regions, the unemployment rate decreased between .75% and 1% in the Pinelands, Non-Pinelands, and Statewide.



<u>Description</u>: The unemployment rate is the proportion of the labor force (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.

<u>Update</u>

After three consecutive years of unemployment increases (2001-2003), the job market began to improve in 2004. According to the US Bureau of Labor statistics, approximately 8.1 million Americans were unemployed in 2004, compared to 8.8 million in 2003. The national unemployment rate dropped by half a percentage point from 6.0% in 2003 to 5.5% in 2004.

Job growth in New Jersey improved even more than the national average with the unemployment rate dropping 1.1% from 5.9% in 2003 to 4.8% in 2004. In the Pinelands, the unemployment rate dropped 0.8% to settle at 4.8%. The Non-Pinelands also experienced a 0.8% decrease in unemployment during the year, finishing with an average rate of 5.4% for the year. In the 25 years of data that is covered in the monitoring period (1980–2004), 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 westernmost suburbs of Trenton and Philadelphia. The highest rates in South Jersey are found in Cumberland and Cape May counties, although those areas have shown the most improvement in regards to employment gains relative to the rest of the region from 2001-2004 (Figure E2). Among Pinelands communities some of the largest increases in unemployment from 2001-2004 have been in municipalities surrounding Ft. Dix military base– Wrightstown (+2.3%) and Pemberton Township (+1.5%) in Burlington county ranked 1st and 4th in the Pinelands for change in unemployment rate over the period 2001-2004 (Table E2).

| Table E2 Unemployment 2001 – 2004 | | | | | | | |
|-----------------------------------|----------------|---------------------|--------------|--------------|-------|-------------------------------------|--|
| Municipality | County | 2004 | 2003 | 2002 | 2001 | Three Year Change 2001 - 2004 | |
| Wrightstown | Burlington | 10.1% | 11.0% | 11.0% | 7.8% | 2.3% | |
| Chesilhurst | Camden | 7.3% | 8.2% | 7.9% | 5.6% | 1.7% | |
| Washington | Burlington | 5.8% | 6.3% | 6.4% | 4.3% | 1.5% | |
| Pemberton Township | Burlington | 5.9% | 6.4% | 6.4% | 4.4% | 1.5% | |
| Buena | Atlantic | 11.5% | 13.1% | 12.5% | 10.2% | 1.3% | |
| Woodland | Burlington | 5.0% | 5.5% | 5.5% | 3.8% | 1.2% | |
| Winslow | Camden | 5.0% | 5.6% | 5.4% | 3.8% | 1.2% | |
| South Toms River | Ocean | 6.6% | 7.6% | 7.1% | 5.4% | 1.2% | |
| Bass River | Burlington | 4.8% | 5.2% | 5.3% | 3.6% | 1.2% | |
| Franklin | Gloucester | 5.5% | 6.2% | 5.9% | 4.3% | 1.2% | |
| Little Egg Harbor | Ocean | 6.6% | 7.6% | 7.2% | 5.5% | 1.1% | |
| Berkeley | Ocean | 6.2% | 7.1% | 6.7% | 5.1% | 1.1% | |
| Manchester | Ocean | 6.0% | 6.9% | 6.5% | 4.9% | 1.1% | |
| Medford | Burlington | 4.3% | 4.7% | 4.7% | 3.2% | 1.1% | |
| Southampton | Burlington | 4.5% | 5.0% | 5.0% | 3.4% | 1.1% | |
| Beachwood | Ocean | 5.6% | 6.4% | 6.1% | 4.6% | 1.0% | |
| Egg Harbor City | Atlantic | 8.4% | 9.6% | 9.1% | 7.4% | 1.0% | |
| Berlin Township | Camden | 4.0% | 4.5% | 4.3% | 3.1% | 0.9% | |
| | | 4.0 % 5.0% | 5.7% | 5.4% | 4.1% | 0.9% | |
| Ocean | Ocean Ocean | 4.7% | 5.4% | 5.4% | 3.8% | 0.9% | |
| Eagleswood | | <u>4.7%</u> 5.2% | 5.4% 6.0% | 5.7% | 4.3% | 0.9% | |
| Stafford | Ocean | | | 5.7% 8.0% | 4.3% | 0.9% | |
| Buena Vista | Atlantic | 7.4% | 8.4% | | | | |
| Monroe | Gloucester | 4.2% | 4.7% | 4.5% | 3.3% | 0.9% | |
| Lacey | Ocean | 5.1% | 5.9% | 5.6% | 4.2% | 0.9% | |
| Medford Lakes | Burlington | 3.5% | 3.8% | 3.8% | 2.6% | 0.9% | |
| Jackson | Ocean | 4.8% | 5.5% | 5.2% | 3.9% | 0.9% | |
| Barnegat | Ocean | 4.6% | 5.3% | 5.0% | 3.8% | 0.8% | |
| Mullica | Atlantic | 7.3% | 8.4% | 8.0% | 6.5% | 0.8% | |
| Shamong | Burlington | 3.1% | 3.4% | 3.4% | 2.3% | 0.8% | |
| Waterford | Camden | 3.1% | 3.5% | 3.3% | 2.4% | 0.7% | |
| Tabernacle | Burlington | 2.8% | 3.1% | 3.1% | 2.1% | 0.7% | |
| Lakehurst | Ocean | 3.9% | 4.5% | 4.3% | 3.2% | 0.7% | |
| Egg Harbor Township | Atlantic | 5.0% | 5.7% | 5.4% | 4.4% | 0.6% | |
| New Hanover | Burlington | 2.6% | 3.0% | 2.9% | 2.0% | 0.6% | |
| Plumsted | Ocean | 3.5% | 4.1% | 3.9% | 2.9% | 0.6% | |
| Evesham | Burlington | 2.4% | 2.6% | 2.6% | 1.8% | 0.6% | |
| Hammonton | Atlantic | 5.1% | 5.9% | 5.6% | 4.5% | 0.6% | |
| Weymouth | Atlantic | 5.3% | 6.1% | 5.8% | 4.7% | 0.6% | |
| Galloway | Atlantic | 4.5% | 5.2% | 4.9% | 4.0% | 0.5% | |
| Folsom | Atlantic | 4.3% | 5.0% | 4.7% | 3.8% | 0.5% | |
| Hamilton | Atlantic | 4.3% | 5.0% | 4.7% | 3.8% | 0.5% | |
| Port Republic | Atlantic | 3.3% | 3.7% | 3.6% | 2.9% | 0.4% | |
| Estell Manor | Atlantic | 3.0% | 3.4% | 3.3% | 2.6% | 0.4% | |
| Maurice River | Cumberland | 4.4% | 5.8% | 5.6% | 5.0% | -0.6% | |
| Upper | Cape May | 4.3% | 6.4% | 6.2% | 5.3% | -1.0% | |
| Dennis | Cape May | 4.7% | 6.9% | 6.7% | 5.7% | -1.0% | |
| Woodbine | Cape May | 7.4% | 10.7% | 10.3% | 8.9% | -1.5% | |
| "Outside Municipalities" | | ,0 | | | 0.070 | | |
| North Hanover | Burlington | 6.0% | 6.5% | 6.5% | 4.5% | 1.5% | |
| Berlin Borough | Camden | 4.4% | 5.0% | 4.8% | 3.4% | 1.0% | |
| Springfield | Burlington | 3.6% | 3.9% | 3.9% | 2.7% | 0.9% | |
| Corbin City | Atlantic | 4.4% | 4.9% | 4.6% | 3.9% | 0.5% | |
| Vineland | Cumberland | 6.5% | 8.4% | 8.2% | 7.3% | -0.8% | |

| Table E2 | Unemployment 2001 – 2004 |
|----------|--------------------------|
|----------|--------------------------|

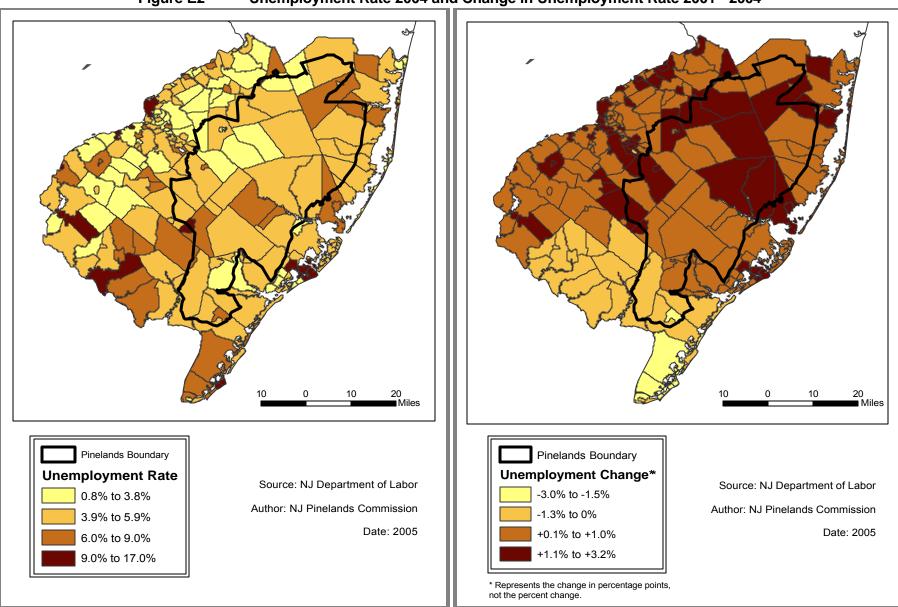
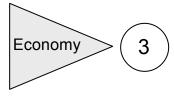


Figure E2 Unemployment Rate 2004 and Change in Unemployment Rate 2001 - 2004



Employment, Establishments, Wages

New Jersey Department of Labor 1991 – 2003



• In the past ten 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 | Accomodation & 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 | Accomodation & 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%) | Accomodation & 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%) | Accomodation & 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.

¹¹ 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.

¹² 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 towards the retail sector and less towards 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 are fairly close between all three regions.

Wages

Average annual wages declined statewide from 1993 to 1998 by 2.7%. 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% |

<u>Update</u>

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 since they capture more data at the individual industrial classification level since 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. Over the most recent five years, the Pinelands added 1,000 new establishments, a gain of 9.2% over 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 over 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%).

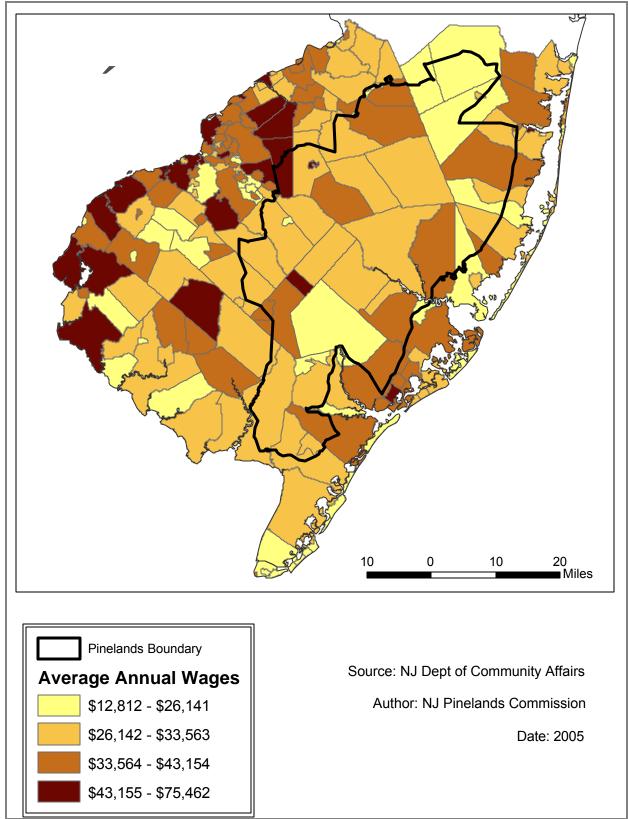
Wages

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. Over 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 average annual wages nonetheless have lagged behind the rest of the region.

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



| | | , | | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------------|
| 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 E3a | County Private Sector Employment |
|-----------|----------------------------------|
|-----------|----------------------------------|

Table E3b County Private Sector Establishments

| 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% |

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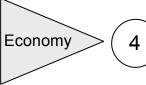
| | NAICS | | Burlingtor | <i>,</i> | Cono | Cumberland | Gloucester | Ocean | Salem | South Jersey |
|-------|--------------------------------------|---------|------------|----------|--------|------------|------------|---------|--------|-----------------|
| 11 | Agriculture/Forestry/Fishing/Hunting | 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 E3d | 2003 County Private Sector Employment by NAICS Sector |
|-----------|-------------------------------------------------------|
|-----------|-------------------------------------------------------|

Table E3e2003 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



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

| | | Per Capita Ret | all Sales | | |
|-------------------------|-----------------|-----------------|-----------|---------------|----------------|
| OOUNITY | 1992 Per Capita | 1997 Per Capita | | 5 Year Change | 10 Year Change |
| COUNTY | Sales | Sales | Sales | 1997 - 2002 | 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% |

Per Capita Retail Sales

<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.

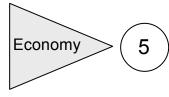
¹³ The categories for Pinelands and Non-Pinelands represent the number of municipalities for which the data is available. Data is available for 28 of the 47 Pinelands municipalities, and 81 of the 155 Non-Pinelands municipalities.

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.

<u>Update</u>

The release of the 2002 Census of Retail Trade in May of this year continues to show the Pinelands gaining 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 sbwdown 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 experien ced 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 relative 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.

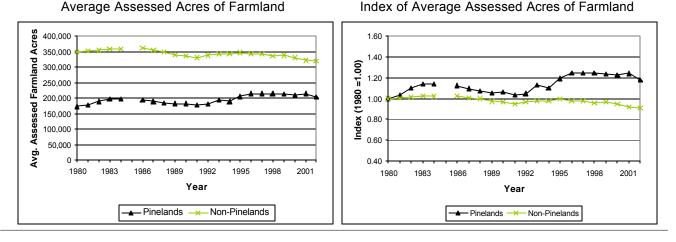


Assessed Farmland Acreage Induced

New Jersey Agricultural Statistics Service 1980 – 2002*

* Data from 1985 is not available.

Assessed acres in farmland decreased in both the Pinelands and Non-Pinelands in 2002.



Description: 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 5 of the 6 years from 1995-2001. 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 2001.

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.

<u>Update</u>

Assessed farmland in the Pinelands decreased 4.9% in 2002, marking the largest one-year decrease in the monitoring period. For the year, there were 202,649 acres in farmland in the Pinelands. The Non-Pinelands farmland acreage also decreased in 2002, falling 1.1% to a total of 317,863 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 changes in acreage using averages from the period 1983-87 to the period 1998-2002 for all of South Jersey. Municipalities that are crosshatched in this map have had minor changes over the period. The pattern for the larger changes in acreage are clear - with the exception of Cumberland County and parts of Salem County, most of the municipalities to the west of the Pinelands boundary have experienced decreases in farmland in the last

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20 years. In the Pinelands, most of the municipalities have either remained steady or shown increases in farmland over the same period. Despite its massive increases in population over the last 10 years, Ocean County has in fact substantially increased its land in farming over the past 20 years. Four municipalities in the Pinelands have experienced large losses in farmland over the past 20 years: Hamilton (-6,400 acres), Pemberton Township (-4,300), Medford (-2,100), and Evesham (-1,900).

| Average Farmla | and Assessed Ac | reage in the Pine | elands Municipal | ities | |
|----------------|----------------------|----------------------|----------------------|----------------------|--------------------------------|
| County | 1983-1987 Average | 1988-1992 Average | 1993-1997 Average | 1998-2002 Average | Change between 83-87 and 98-02 |
| Atlantic | 42,924 | 39,427 | 43,083 | 41,105 | -4% |
| Burlington | 91,311 | 85,573 | 92,846 | 89,580 | -2% |
| Camden | 10,498 | 10,005 | 10,572 | 10,706 | 2% |
| Саре Мау | 6,681 | 7,552 | 7,143 | 6,885 | 3% |
| Cumberland | 8,475 | 6,656 | 6,435 | 11,875 | 40% |
| Gloucester | 20,304 | 19,052 | 22,742 | 22,115 | 9% |
| Ocean | 12,587 | 12,600 | 20,051 | 27,953 | 122% |
| Average Farml | and Assessed Ac | reage in the Non | -Pinelands Muni | cipalities | |
| County | 1983-1987 Average | 1988-1992 Average | 1993-1997 Average | 1998-2002 Average | Change between 83-87 and 98-02 |
| Atlantic | 106 | 275 | 304 | 287 | 171% |
| Burlington | 74,984 | 65,749 | 64,271 | 59,214 | -21% |
| Camden | 4,614 | 3,127 | 2,692 | 2,206 | -52% |
| Саре Мау | 7,272 | 6,372 | 5,397 | 5,197 | -29% |
| Cumberland | 78,956 | 78,189 | 84,570 | 83,436 | 6% |
| Gloucester | 65,984 | 62,355 | 59,568 | 54,508 | -17% |
| Ocean | 904 | 755 | 726 | 659 | -27% |
| Salem | 124,325 | 121,669 | 125,393 | 122,745 | -1% |
| | | | | | |
| Percentage of | Total Average Fa | | - | | = |
| County | 1983-1987 | 1988-1992 | 1993-1997 | 1998-2002 | Change between |
| - | Average | Average | Average | Average | 83-87 and 98-02 |
| Atlantic | 100% | 99% | 99% | 99% | -1% |
| Burlington | 55% | 57% | 59% | 60% | 5% |
| Camden | 69% | 76% | 80% | 83% | 14% |
| Cape May | 48% | 54% | 57% | 57% | 9% |
| Cumberland | 10% | 8% | 7% | 12% | 2% |
| Gloucester | 24% | 23% | 28% | 29% | 5% |
| Ocean | 93% | 94% | 97% | 98% | 5% |

Table E5 Farmland Assessed Acreage

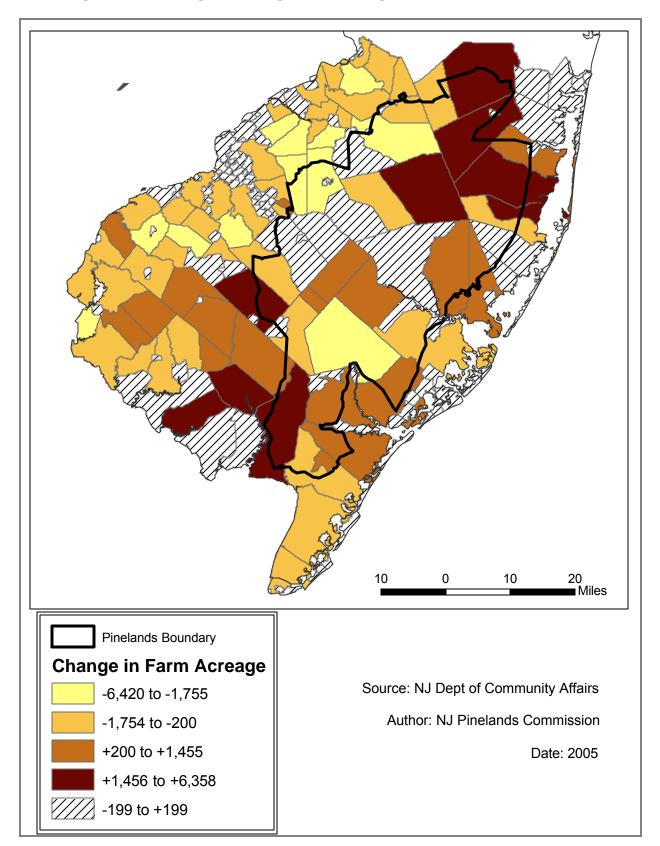
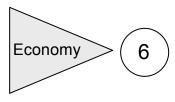


Figure E5 Change in Average Farm Acreage from 1983-1987 to 1998-2002

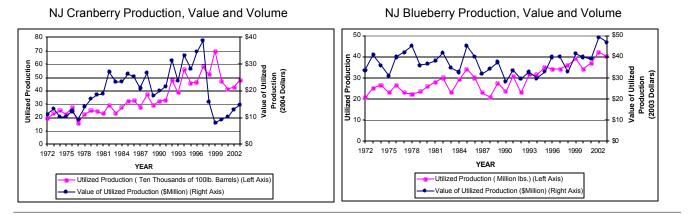


Cranberry and Blueberry Production

Updated

NJ Agricultural Statistics Service 1972 - 2003

• Prices for both cranberries and blueberries were unchanged for 2003. Cranberry production increased 11% while blueberry production declined 5% for the year.



<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 2003 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 to1996 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 \$11.45 per 100 lbs in 1999 to \$30.45 per 100 lbs in 2002, an increase of 166%. Despite this increase, prices remain well below their peak of \$74.40 per 100 lbs in 1996.

The value of utilized production for blueberries remained fairly steady with yearly fluctuations over the period 1972-1997. Overall production increased by 24% between 1997 and 2002. The value of production increased consistently over this five-year period, rising by 23%, while the sale price fell by 1%. (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.

<u>Update</u>

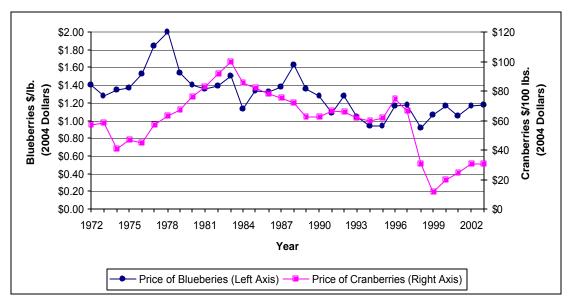
The value in utilized production of cranberries increased for the 4th consecutive year in 2003, rising 11.4% to \$14.6 million. This increase was due primarily to an increase in production of 11.6%. After posting impressive price increases from 1999-2002 (+166% over the period), cranberry prices stalled in 2003 falling 0.2% to \$30.39 per 100

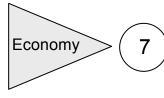
lbs. The blueberry industry also experienced flat growth in prices in 2003, posting a price gain of only 0.4% to \$1.17 per pound. Blueberry farmers, however, also experienced a decrease in value of production (-4.5%) as output decreased 4.8% to 40 million pounds in 2003.

| | Sales | (in \$1,000 Dc | ollars) | Ar | nual % Chan | ge |
|------|-----------|----------------|------------|-----------|-------------|------------|
| Year | Cranberry | Blueberry | New Jersey | Cranberry | Blueberry | New Jersey |
| 1992 | 31,406 | 29,378 | 869,226 | | | |
| 1993 | 23,818 | 32,689 | 917,347 | -24.2% | 11.3% | 5.5% |
| 1994 | 25,496 | 29,577 | 971,183 | 7.0% | -9.5% | 5.9% |
| 1995 | 28,137 | 32,847 | 945,399 | 10.4% | 11.1% | -2.7% |
| 1996 | 34,749 | 39,744 | 963,535 | 23.5% | 21.0% | 1.9% |
| 1997 | 38,768 | 39,991 | 939,856 | 11.6% | 0.6% | -2.5% |
| 1998 | 15,879 | 32,866 | 937,443 | -59.0% | -17.8% | -0.3% |
| 1999 | 8,017 | 41,489 | 839,584 | -49.5% | 26.2% | -10.4% |
| 2000 | 9,209 | 39,602 | 926,026 | 14.9% | -4.5% | 10.3% |
| 2001 | 10,151 | 39,176 | 890,948 | 10.2% | -1.1% | -3.8% |
| 2002 | 14,403 | 49,130 | 912,846 | 41.9% | 25.4% | 2.5% |
| 2003 | 15,522 | 46,905 | 868,387 | 7.8% | -4.5% | -4.9% |

Table E6Sales of New Jersey Farm Products

Figure E6 Cranberry and Blueberry Prices





Census of Agriculture

| X Updated |
|-----------|
|-----------|

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

• According to the recently released 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 using 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, 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% over 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.

<u>Update</u>

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 1997-2002, 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 in acres farmed of 10.2%. The increase in the Pinelands is due

primarily to 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 number of farms tells the same story for the period 1997 to 2002. 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%).

| | La | and in Farm | ing (acres) | | P | ercentage | 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 of | Farms | | P | ercentage | 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% |
| | Ave | erage Farm | Size (acres) |) | P | ercentage | 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 E7aLand in Farming

| | 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 E7bAgricultural Sales(2004 Dollars)

Table E7cNet Cash Return for New Jersey Farms
(2004 Dollars)

| | Total Net Cash Return (1,000's) | | | 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% |

| | Net Ca | ash Return p | oer 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 E7dNet Cash Return per Farm
(2004 Dollars)

| Table E7e | Farms with Net Losses |
|-----------|-----------------------|
| | |

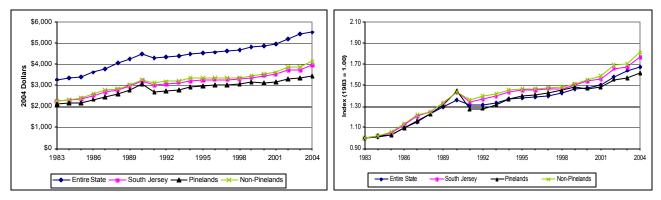
| | | | | Percentage of | | | | |
|---------------------------|-------|---------------|-------|---------------------------|-------|-------|--|--|
| | Farm | s with Net Lo | sses | All Farms with Net Losses | | | | |
| County | 1992 | 1997 | 2002 | 1992 | 1997 | 2002 | | |
| Atlantic | 162 | 227 | 197 | 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 Counties | 1,474 | 1,413 | 1,852 | 47.5% | 45.6% | 56.1% | | |
| Non-Pinelands Counties | 3,375 | 3,582 | 4,265 | 56.5% | 59.7% | 64.4% | | |
| New Jersey | 4,849 | 4,995 | 6,117 | 53.4% | 54.9% | 61.6% | | |

Municipal Finance 1 Avg Residential Property Tax Bill v Updated NJ Dept of Treasury, Division of Taxation 1983 - 1999 NJ Dept of Community Affairs, Div LGS 2000 - 2004

• The gap in the average residential property tax bill paid between the Pinelands and Non-Pinelands continued to expand in 2004.

Average Residential Property Tax Bill

Index of Average Residential Property Tax Bill



<u>Description</u>: 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 2004 dollars.

<u>Unit of Analysis</u>: 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 1980's to a peak in 1990, followed by a decline in 1991 and a subsequent slow, continued increase. 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. Tax bills accelerated at a greater rate in 2002, but in 2003 growth in taxes for South Jersey was less than 1% in both the Pinelands and Non-Pinelands. ¹⁵

<u>Update</u>

After modest increases in the average property tax bills for South Jersey in relation to the state as a whole in 2003 (South Jersey +0.8%, Statewide +3.9%), the scenario was reversed in 2004. The average residential property tax bill increased 5.8% in South Jersey in 2004; in contrast, statewide average residential property tax bills rose only 1.9%. The Pinelands did fare better than the Non-Pinelands in South Jersey, registering an increase in average residential property taxes of 3.0% versus a 6.5% increase in the Non-Pinelands. Average residential property taxes in the Pinelands are now \$700 lower than in the Non-Pinelands and \$2,085 lower than the state as a whole.

The average residential property tax bill in New Jersey, adjusted for inflation, has increased by 65% between 1984 and 2004, from \$3,333 to \$5,513. Within Southern New Jersey, the average Pinelands bill increased by 60% (from \$2,149 to \$3,428) while the average Non-Pinelands bill increased by 77% (from \$2,336 to \$4,126).

The rapidly growing 2nd 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 1984-2004.

From 2003 to 2004, 11 of the 47 Pinelands municipalities (23.4%) experienced real tax decreases (Table F1). In the remaining 155 municipalities that comprise the Non-Pinelands, 28 had real tax decreases from 2003 to 2004 (18.1%).

¹⁵ Average property tax numbers reported in the 2004 Annual Report were adjusted in this report with new data obtained for 2003.

| Municipality | County | Avg. Property Tax Bill 2004 | Actual Change from 2003 | % Change from 2003 | South Jersey Rank 2004 |
|---------------------|------------|--------------------------------------|-------------------------------|-----------------------|---------------------------|
| Woodbine | Cape May | \$1,409 | \$446 | 46.4% | 197 |
| Medford | Burlington | \$7,343 | \$441 | 6.4% | 6 |
| Evesham | Burlington | \$5,377 | \$353 | 7.0% | 23 |
| Egg Harbor Township | Atlantic | \$3,911 | \$292 | 8.1% | 82 |
| Stafford | Ocean | \$3,987 | \$285 | 7.7% | 77 |
| Washington | Burlington | \$2,670 | \$285 | 12.0% | 162 |
| Monroe | Gloucester | \$4,173 | \$284 | 7.3% | 70 |
| Berlin Township | Camden | \$4,001 | \$260 | 6.9% | 76 |
| Estell Manor | Atlantic | \$2,734 | \$196 | 7.7% | 156 |
| Buena Vista | Atlantic | \$2,507 | \$194 | 8.4% | 173 |
| Southampton | Burlington | \$3,600 | \$190 | 5.6% | 100 |
| South Toms River | Ocean | \$2,626 | \$185 | 7.6% | 167 |
| Woodland | Burlington | \$2,313 | \$176 | 8.2% | 185 |
| Port Republic | Atlantic | \$3,718 | \$167 | 4.7% | 90 |
| Dennis | Cape May | \$2,395 | \$167 | 7.4% | 181 |
| | | | \$166 | 7.4% 4.7% | 181 |
| Eagleswood | Ocean | \$3,276 | | | |
| Hammonton | Atlantic | \$3,504 | \$139 | 4.1% | 109 |
| Lacey | Ocean | \$3,698 | \$137 | 3.8% | 92 |
| Berkeley | Ocean | \$2,842 | \$137 | 5.0% | 151 |
| Barnegat | Ocean | \$4,047 | \$131 | 3.3% | 75 |
| Tabernacle | Burlington | \$4,988 | \$124 | 2.6% | 30 |
| Jackson | Ocean | \$4,740 | \$117 | 2.5% | 43 |
| Little Egg Harbor | Ocean | \$3,364 | \$117 | 3.6% | 116 |
| Galloway | Atlantic | \$3,449 | \$111 | 3.3% | 111 |
| Ocean | Ocean | \$3,569 | \$103 | 3.0% | 105 |
| Hamilton | Atlantic | \$2,848 | \$89 | 3.2% | 150 |
| Manchester | Ocean | \$2,632 | \$88 | 3.5% | 166 |
| Folsom | Atlantic | \$2,447 | \$85 | 3.6% | 179 |
| Buena | Atlantic | \$2,648 | \$80 | 3.1% | 165 |
| Beachwood | Ocean | \$3,097 | \$60 | 2.0% | 137 |
| Upper | Cape May | \$3,393 | \$58 | 1.7% | 115 |
| Franklin | Gloucester | \$3,101 | \$54 | 1.8% | 136 |
| Maurice River | Cumberland | \$2,284 | \$49 | 2.2% | 187 |
| Medford Lakes | Burlington | \$6,446 | \$48 | 0.8% | 10 |
| Winslow | Camden | \$3,605 | \$46 | 1.3% | 99 |
| Shamong | Burlington | \$5,589 | \$34 | 0.6% | 20 |
| Pemberton Township | Burlington | \$2,674 | -\$7 | -0.3% | 161 |
| Mullica | Atlantic | \$3,255 | -\$7 | -0.3 % | 126 |
| Chesilhurst | Camden | \$2,791 | -\$12 | -0.4 % | 153 |
| Lakehurst | Ocean | \$3,062 | -\$25 | -0.8% | 138 |
| Plumsted | Ocean | \$3,960 | -\$35 | -1.1% | 79 |
| Bass River | | | | -1.0% | 139 |
| | Burlington | \$3,041 | -\$52 | | |
| Egg Harbor City | Atlantic | \$3,404 | -\$72 | -2.1% | 113 |
| Waterford | Camden | \$4,287 | -\$123 | -2.8% | 62 |
| Weymouth | Atlantic | \$2,325 | -\$165 | -6.6% | 184 |
| Wrightstown | Burlington | \$1,691 | -\$261 | -13.4% | 195 |
| New Hanover | Burlington | \$2,300 | -\$351 | -13.2% | 186 |
| "Outside | | | | | |
| Municipalities" | | | | | |
| Corbin City | Atlantic | \$3,582 | \$1,072 | 42.7% | 103 |
| Springfield | Burlington | \$4,401 | \$39 | 0.9% | 57 |
| Vineland | Cumberland | \$2,683 | \$19 | 0.7% | 158 |
| North Hanover | Burlington | \$3,514 | -\$1 | 0.0% | 107 |
| Berlin Borough | Camden | \$4,627 | -\$28 | -0.6% | 47 |

Table F1 Average Residential Property Tax Bill in the Pinelands

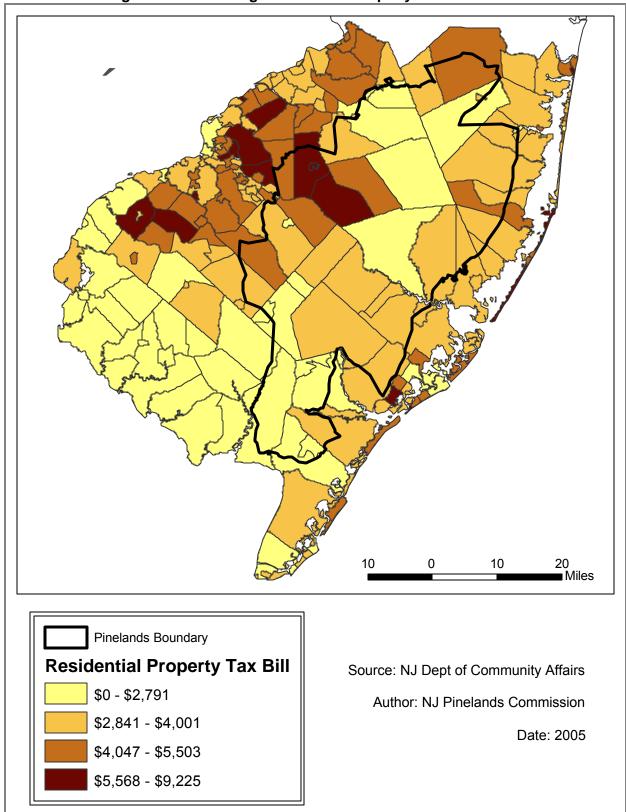
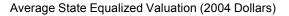


Figure F1Average Residential Property Tax Bill in 2004

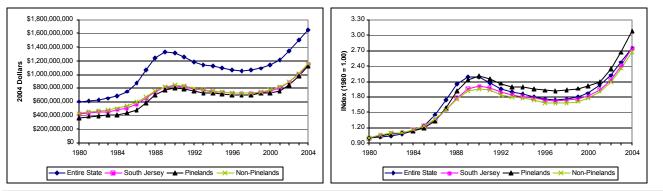
* Range excludes outliers Tavistock Borough and Mantoloking Borough.



In 2004, the average equalized property value in the Pinelands increased by more than 10% for the third consecutive year.



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 2004 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 1980's, 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 2003 in all regions.

<u>Update</u>

Equalized property values rose across all regions of the state for the seventh consecutive year in 2004. In fact, over the past seven years the percentage increase in equalized values has in each year been greater than the previous year for all regions. Once again, the increase in valuation for the Pinelands slightly eclipsed the increase in the Non-Pinelands (+15.2% versus +13.8%). The valuation for the average Pinelands municipality was \$1.12 billion in 2004, compared to an average of \$1.15 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 2004, that difference has almost evaporated; the average Non-Pinelands municipality valuation is now only 2.6% 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 2004 equalized values were divided by 2003 population estimates for each region. The results show that the state has a higher equalized value per capita than Southern New Jersey (\$108,841 versus \$98,396), while the Pinelands region has a much lower per capita value compared to the Non-Pinelands region (\$80,175 versus \$105,478). The Pinelands municipalities exhibit a great deal of variation with per capita values ranging from a high of \$141,000 in Stafford to a low of \$6,200 in New Hanover (Table F2).

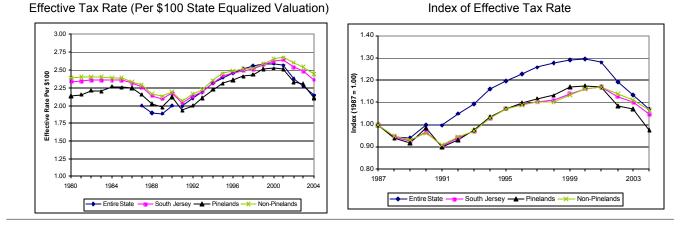
Table F22004 Equalized Value and Equalized Value Per Capita

| County | Municipality | Population Est 2003 | Equalized Value 2004* | Eq Value Per Capita* |
|--------------------|-------------------------------------------|------------------------|-----------------------|-----------------------|
| Ocean | Stafford | 24,318 | \$3,429,900,000 | \$141,000 |
| Burlington | Washington | 637 | \$88,400,000 | \$138,800 |
| Cape May | Upper | 11,965 | \$1,426,200,000 | \$119,200 |
| Ocean | Lacey | 26,240 | \$2,982,400,000 | \$113,700 |
| Burlington | Medford | 23,359 | \$2,555,900,000 | \$109,400 |
| Ocean | Ocean | 7,214 | \$766,100,000 | \$106,200 |
| Ocean | Berkeley | 42,247 | \$4,381,900,000 | \$103,700 |
| Ocean | Eagleswood | 1,534 | \$154,900,000 | \$101,000 |
| Atlantic | Port Republic | 1,071 | \$106,400,000 | \$99,300 |
| Ocean | Jackson | 49,644 | \$4,918,100,000 | \$99,100 |
| Cape May | Dennis | 6,338 | \$626,500,000 | \$98,800 |
| Ocean | Little Egg Harbor | 18,616 | \$1,762,900,000 | \$94,700 |
| Burlington | Woodland | 1,354 | \$125,800,000 | \$92,900 |
| Burlington | Evesham | 46,111 | \$4,178,400,000 | \$90,600 |
| Burlington | Shamong | 6,749 | \$591,100,000 | \$87,600 |
| Burlington | Medford Lakes | 4,205 | \$365,200,000 | \$86,800 |
| Burlington | Southampton | 10,918 | \$932,100,000 | \$85,400 |
| Ocean | Plumsted | 8,034 | \$686,200,000 | \$85,400 |
| Atlantic | Egg Harbor Township | | | |
| | Tabernacle | 35,061 | \$2,948,700,000 | \$84,100 \$81,400 |
| Burlington | | 7,312 | \$595,200,000 | \$81,400 |
| Atlantic | Estell Manor | 1,657 | \$134,600,000 | \$81,200 |
| Ocean | Barnegat | 17,632 | \$1,426,300,000 | \$80,900 |
| Ocean | Manchester | 42,228 | \$3,166,800,000 | \$75,000 |
| Camden | Berlin Township | 5,360 | \$396,300,000 | \$73,900 |
| Atlantic | Hamilton | 22,705 | \$1,638,200,000 | \$72,200 |
| Atlantic | Galloway | 34,221 | \$2,454,300,000 | \$71,700 |
| Atlantic | Folsom | 1,977 | \$137,600,000 | \$69,600 |
| Burlington | Bass River | 1,562 | \$108,400,000 | \$69,400 |
| Atlantic | Hammonton | 12,994 | \$886,100,000 | \$68,200 |
| Ocean | Beachwood | 10,712 | \$704,600,000 | \$65,800 |
| Atlantic | Mullica | 6,038 | \$374,700,000 | \$62,100 |
| Gloucester | Monroe | 30,427 | \$1,769,300,000 | \$58,100 |
| Camden | Waterford | 10,645 | \$600,900,000 | \$56,400 |
| Gloucester | Franklin | 16,013 | \$902,100,000 | \$56,300 |
| Atlantic | Buena Vista | 7,556 | \$389,400,000 | \$51,500 |
| Atlantic | Weymouth | 2,324 | \$119,200,000 | \$51,300 |
| Atlantic | Buena | 3,832 | \$192,900,000 | \$50,300 |
| Camden | Winslow | 35,150 | \$1,727,400,000 | \$49,100 |
| Ocean | Lakehurst | 2,582 | \$123,200,000 | \$47,700 |
| Ocean | South Toms River | 3,703 | \$172,100,000 | \$46,500 |
| Atlantic | Egg Harbor City | 4,486 | \$187,900,000 | \$41,900 |
| Burlington | Pemberton Township | 28,938 | \$1,099,700,000 | \$38,000 |
| Cape May | Woodbine | 2,677 | \$93,900,000 | \$35,100 |
| Burlington | Wrightstown | 749 | \$25,700,000 | \$34,300 |
| Camden | Chesilhurst | 1,756 | \$52,700,000 | |
| Cumberland | Maurice River | 7,600 | \$187,900,000 | \$24,700 |
| Burlington | New Hanover | 9,520 | \$58,700,000 | \$6,200 |
| "Outside" Municipa | | 5,520 | 400,700,000 | ψ0,200 |
| Burlington | Springfield | 3,504 | \$368,800,000 | ¢105 200 |
| | | 6,819 | | \$105,300 \$77,300 |
| Camden | Berlin Borough | · · · | \$527,400,000 | \$77,300 |
| Atlantic | Corbin City | 519 | \$28,400,000 | \$54,700 |
| Cumberland | Vineland | 57,057 | \$2,580,800,000 | \$45,200 |
| Burlington | North Hanover been rounded. Shown in c | 7,556 | \$299,400,000 | \$39,600 |

* Values have been rounded. Shown in current 2004 dollars.



• Effective Tax Rates experienced their sharpest one-year decline in over a decade in all regions of the state in 2004. In the Pinelands, the average effective tax rate dropped by 9%.



<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 1980's 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 1990's and surpassed earlier highs set in the 1980's. Pinelands effective tax rates tax rates tax rates continue to remain lower than all other regions of New Jersey. Rates began falling in 2001 and continued to fall through 2003.

<u>Update</u>

Effective tax rates declined across all regions of the state for the fourth consecutive year in 2004. Fueled by an increasingly active real estate market and rising home prices, effective tax rates experienced their largest one-year percentage decrease since 1991. Statewide, New Jersey posted a decrease of 5.7% in effective tax rates in 2004, dropping from 2.27 in 2003 to 2.14 in 2004. In Southern New Jersey, effective tax rates fell 4.0% in the Non-Pinelands to 2.44 compared to an 8.5% decrease in the Pinelands to 2.10. 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.¹⁶ Berlin Township, Egg Harbor City, and Waterford are the only Pinelands municipalities with rates higher than 3.00. These municipalities represent 6.4% of the 47 Pinelands municipalities. By contrast, in the Non-Pinelands 39 municipalities have effective tax rates above 3.00, which represents 25.2% of the Non-Pinelands municipalities. The majority of municipalities with rates above 3.00 are clustered in Camden County (Figure RE3).

¹⁶ See "The Property Tax Trouble Zone Moves Beyond Big Cities" by Coleman, New Jersey Municipalities, Dec 2002, p. 66-69

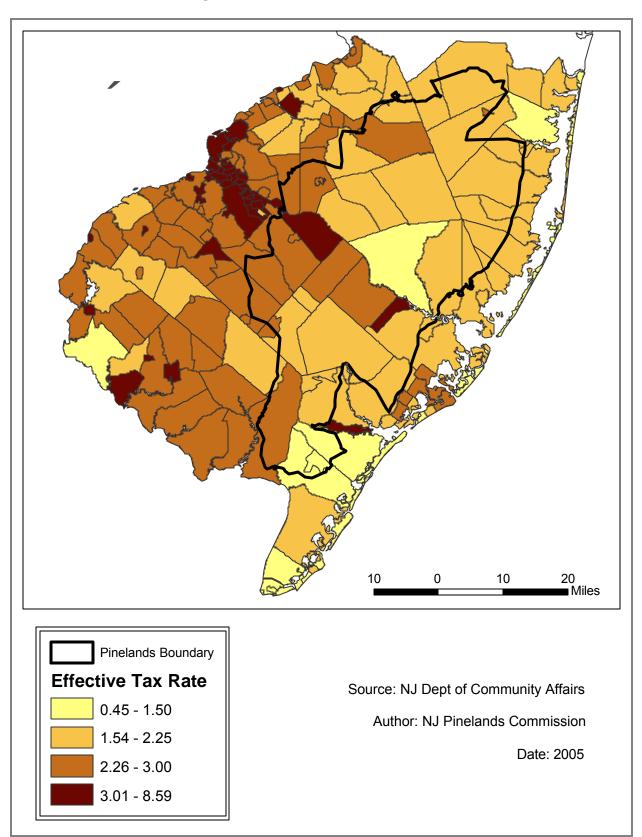
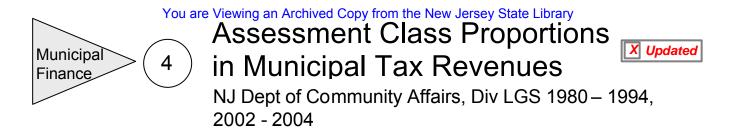


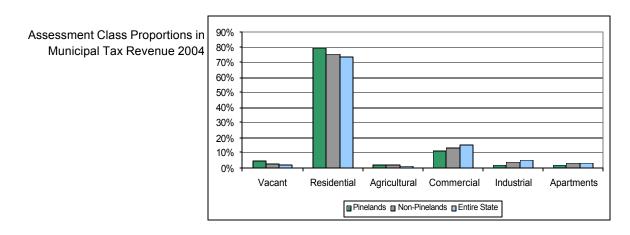
Figure F3 Effective Tax Rates 2004

| Municipality | County | Effective Tax Rate | South Jersey Rank |
|--------------------------|------------|--------------------|-------------------|
| | - | | - |
| Berlin Township | Camden | 3.27 | 25 |
| Egg Harbor City | Atlantic | 3.13 | 32 |
| Waterford | Camden | 3.04 | 40 |
| Winslow | Camden | 2.88 | 54 |
| Monroe | Gloucester | 2.82 | 57 |
| Medford Lakes | Burlington | 2.77 | 60 |
| Chesilhurst | Camden | 2.72 | 65 |
| Buena | Atlantic | 2.58 | 75 |
| Medford | Burlington | 2.58 | 77 |
| Hammonton | Atlantic | 2.56 | 80 |
| Evesham | Burlington | 2.43 | 96 |
| Franklin | Gloucester | 2.43 | 97 |
| Mullica | Atlantic | 2.30 | 109 |
| Pemberton Township | Burlington | 2.30 | 109 |
| Lakehurst | Ocean | 2.29 | 113 |
| Maurice River | Cumberland | 2.27 | 114 |
| Tabernacle | Burlington | 2.19 | 122 |
| Egg Harbor Township | Atlantic | 2.17 | 124 |
| Hamilton | Atlantic | 2.17 | 125 |
| Galloway | Atlantic | 2.15 | 127 |
| Buena Vista | Atlantic | 2.14 | 128 |
| Shamong | Burlington | 2.14 | 129 |
| Wrightstown | Burlington | 2.12 | 132 |
| Southampton | Burlington | 2.12 | 133 |
| Bass River | Burlington | 2.08 | 134 |
| Barnegat | Ocean | 2.05 | 136 |
| Woodland | Burlington | 2.02 | 138 |
| Little Egg Harbor | Ocean | 1.99 | 140 |
| South Toms River | Ocean | 1.98 | 142 |
| Eagleswood | Ocean | 1.98 | 143 |
| Estell Manor | Atlantic | 1.88 | 148 |
| Ocean | Ocean | 1.84 | 150 |
| Folsom | Atlantic | 1.71 | 154 |
| Jackson | Ocean | 1.71 | 155 |
| Beachwood | Ocean | 1.69 | 156 |
| Port Republic | Atlantic | 1.69 | 157 |
| Plumsted | Ocean | 1.66 | 158 |
| Stafford | Ocean | 1.61 | 160 |
| Manchester | Ocean | 1.61 | 161 |
| Lacey | Ocean | 1.60 | 162 |
| Berkeley | Ocean | 1.58 | 166 |
| New Hanover | Burlington | 1.56 | 168 |
| Weymouth | Atlantic | 1.54 | 170 |
| Woodbine | Cape May | 1.42 | 172 |
| Washington | Burlington | 1.40 | 174 |
| Dennis | Cape May | 1.38 | 175 |
| Upper | Cape May | 1.35 | 177 |
| "Outside" Municipalities | cape may | | |
| Corbin City | Atlantic | 3.33 | 22 |
| Berlin Borough | Camden | 2.64 | 70 |
| Vineland | Cumberland | 2.22 | 120 |
| Springfield | Burlington | 2.15 | 120 |
| North Hanover | Burlington | 1.77 | 120 |
| NULLI LIANUVEI | Burnington | 1.77 | 133 |

Table F3Effective Tax Rates 2004



• The vacant land category in the Pinelands has declined from 11.9% of total assessment in 1984 to 4.7% in 2004. Over the same period, the residential category has increased 9.2%.



<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, and updates were collected for 2003 and 2004. However, all data for the years 1995 to 2001 is still unavailable. Because a time series is unavailable, this section examines changes in assessment class proportions using ten-year intervals of 1984, 1994, and 2004. 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.

<u>Update</u>

The Pinelands has a 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 11.9% of total Pinelands assessed value in 1984, but dropped to 8.0% in 1994 and declined even further to 4.7% in 2004. 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 69.9% in 1984, to 74.1% in 1994, to 79.1% in 2004. The percentage of assessment in agricultural and commercial land has remained relatively steady between 1994 and 2002, while the percentage of industrial assessed value has decreased.

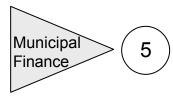
The Pinelands municipalities of Medford Lakes, Beachwood, Tabernacle, Berkeley, Shamong, and Port Republic have the highest percentage of assessed value in the residential category (above ninety percent) in the Pinelands. Wrightstown, Berlin Township, and Woodbine have the lowest percentage of assessed value in the residential category (below sixty percent).

| | | | | Change from |
|---------------|-------|-------|-------|-------------|
| | 1984 | 1994 | 2004 | 1984 - 2004 |
| Pinelands | | | | |
| Vacant | 11.9% | 8.0% | 4.7% | -7.2% |
| Residential | 69.9% | 74.1% | 79.1% | 9.2% |
| Agricultural | 3.4% | 2.2% | 1.9% | -1.5% |
| Commercial | 10.4% | 11.7% | 11.3% | 0.9% |
| Industrial | 2.5% | 2.4% | 1.6% | -0.9% |
| Apartments | 1.9% | 1.6% | 1.5% | -0.4% |
| Non-Pinelands | | | | |
| Vacant | 4.3% | 3.4% | 2.7% | -1.6% |
| Residential | 68.8% | 72.1% | 75.2% | 6.4% |
| Agricultural | 4.1% | 3.1% | 2.2% | -1.9% |
| Commercial | 14.0% | 13.5% | 13.4% | -0.6% |
| Industrial | 4.7% | 4.4% | 3.6% | -1.1% |
| Apartments | 3.4% | 2.8% | 3.0% | -0.4% |
| State | | | | |
| Vacant | 3.9% | 3.3% | 2.2% | -1.7% |
| Residential | 67.3% | 70.0% | 73.6% | 6.3% |
| Agricultural | 1.2% | 0.9% | 0.8% | -0.4% |
| Commercial | 14.8% | 15.9% | 15.6% | 0.8% |
| Industrial | 8.6% | 7.1% | 4.9% | -3.7% |
| Apartments | 4.1% | 2.9% | 2.9% | -1.2% |

Table F4a Assessment Class Proportions in Municipal Valuations

Table F4b 2002 Assessment Class Proportions for Pinelands Municipalities

| Municipality | County | Vacant | Residential | Agricultural | Commercial | Industrial | Apartments |
|---------------------|------------|--------------------|-------------|--------------|------------|------------|------------|
| Medford Lakes | Burlington | 0.4% | 98.1% | 0.0% | 1.5% | 0.0% | 0.0% |
| Beachwood | Ocean | 1.4% | 94.6% | 0.0% | 3.8% | 0.0% | 0.2% |
| Tabernacle | Burlington | 1.5% | 93.3% | 2.7% | 2.4% | 0.1% | 0.0% |
| Shamong | Burlington | 1.3% | 92.4% | 3.8% | 2.1% | 0.4% | 0.0% |
| Berkeley | Ocean | 2.1% | 92.2% | 0.0% | 4.3% | 0.4% | 1.0% |
| Port Republic | Atlantic | 4.4% | 90.9% | 1.4% | 3.2% | 0.0% | 0.0% |
| Pemberton Township | Burlington | 2.4% | 87.1% | 1.9% | 5.9% | 0.5% | 2.2% |
| Waterford | Camden | 2.4% | 86.9% | 2.0% | 8.0% | 0.3% | 0.5% |
| Medford | Burlington | 1.4% | 86.6% | 1.2% | 8.5% | 0.5% | 1.7% |
| Plumsted | Ocean | 2.4% | 86.5% | 4.6% | 5.1% | 1.0% | 0.4% |
| Barnegat | Ocean | 5.6% | 85.8% | 0.1% | 6.1% | 0.2% | 2.2% |
| Stafford | Ocean | 3.1% | 85.8% | 0.0% | 10.9% | 0.1% | 0.2% |
| Little Egg Harbor | Ocean | 6.2% | 85.8% | 0.1% | 7.7% | 0.0% | 0.2% |
| Southampton | Burlington | 2.2% | 85.8% | 4.8% | 6.2% | 1.1% | 0.0% |
| Lacey | Ocean | 2.9% | 85.6% | 0.1% | 7.4% | 3.9% | 0.0% |
| Ocean | Ocean | 8.4% | 84.6% | 0.2% | 6.8% | 0.1% | 0.0% |
| Winslow | Camden | 3.6% | 83.7% | 1.6% | 6.9% | 1.7% | 2.5% |
| Jackson | Ocean | 3.8% | 83.7% | 0.5% | 10.2% | 0.7% | 1.2% |
| Chesilhurst | Camden | 9.3% | 83.5% | 0.0% | 5.3% | 1.4% | 0.5% |
| Mullica | Atlantic | 7.4% | 83.4% | 2.2% | 5.9% | 0.9% | 0.2% |
| South Toms River | Ocean | 2.5% | 83.2% | 0.0% | 14.2% | 0.1% | 0.0% |
| Monroe | Gloucester | 3.0% | 83.0% | 1.3% | 11.0% | 0.5% | 1.3% |
| Franklin | Gloucester | 4.5% | 82.0% | 4.6% | 8.6% | 0.0% | 0.3% |
| Weymouth | Atlantic | 6.8% | 81.5% | 0.3% | 9.4% | 0.2% | 1.6% |
| Upper | Cape May | 5.7% | 81.5% | 0.5% | 11.0% | 1.3% | 0.1% |
| Galloway | Atlantic | 4.4% | 80.7% | 0.7% | 11.2% | 0.7% | 2.4% |
| Estell Manor | Atlantic | 12.4% | 80.3% | 2.0% | 3.1% | 1.4% | 0.8% |
| Washington | Burlington | 4.5% | 79.8% | 4.4% | 9.0% | 2.1% | 0.2% |
| Maurice River | Cumberland | 7.5% | 79.0% | 3.4% | 4.4% | 5.6% | 0.1% |
| Evesham | Burlington | 1.2% | 78.9% | 0.2% | 15.1% | 0.8% | 3.9% |
| Buena Vista | Atlantic | 7.1% | 77.9% | 4.6% | 8.0% | 2.5% | 0.0% |
| Bass River | Burlington | 7.4% | 76.1% | 2.1% | 14.5% | 0.0% | 0.0% |
| Lakehurst | Ocean | 1.3% | 75.6% | 0.0% | 22.7% | 0.0% | 0.5% |
| Manchester | Ocean | 3.4% | 75.1% | 0.1% | 6.9% | 0.5% | 14.0% |
| Dennis | Cape May | 8.7% | 74.8% | 2.0% | 14.6% | 0.0% | 0.0% |
| Folsom | Atlantic | 4.5% | 74.0% | 1.1% | 9.4% | 11.0% | 0.0% |
| Buena | Atlantic | 2.3% | 72.9% | 6.2% | 12.0% | 3.7% | 3.0% |
| Egg Harbor City | Atlantic | 2.3% | 71.0% | 0.0% | 19.2% | 3.8% | 3.8% |
| Hammonton | Atlantic | 3.7% | 70.4% | 3.1% | 18.7% | 2.9% | 1.1% |
| Egg Harbor Township | | 8.5% | 69.7% | 0.2% | 21.2% | 0.0% | 0.4% |
| Eagleswood | Ocean | 13.8% | 69.6% | 0.2% | 13.6% | 2.6% | 0.2% |
| Woodland | Burlington | 6.8% | 67.7% | 13.9% | 5.1% | 6.4% | 0.0% |
| New Hanover | Burlington | 5.9% | 65.4% | 6.0% | 22.6% | 0.2% | 0.0% |
| Hamilton | Atlantic | 5.5% | 60.3% | 0.8% | 28.8% | 1.5% | 3.1% |
| Woodbine | Cape May | 10.4% | 57.0% | 4.4% | 21.5% | 3.3% | 3.4% |
| Berlin Township | Camden | 2.5% | 52.0% | 0.1% | 34.5% | 9.7% | 1.2% |
| Wrightstown | Burlington | 2.3% | 41.0% | 0.0% | 41.2% | 1.2% | 14.1% |
| "Outside" Munis | Samigion | 2. 7 /0 | -1.070 | 0.070 | 71.270 | 1.2/0 | 1-1.170 |
| Corbin City | Atlantic | 7.0% | 82.6% | 1.1% | 9.4% | 0.0% | 0.0% |
| Berlin Borough | Camden | 3.9% | 77.6% | 0.1% | 15.5% | 1.9% | 1.0% |
| Springfield | Burlington | 2.4% | 74.6% | 12.6% | 10.4% | 0.0% | 0.0% |
| North Hanover | Burlington | 2.4% | 73.7% | 7.7% | 12.6% | 0.0% | 3.4% |
| | - | | | | | | |
| Vineland | Cumberland | 2.0% | 70.7% | 1.8% | 19.1% | 3.5% | 2.9% |



Local Municipal Purpose Revenues

NJ Dept of Community Affairs, Div LGS 1998 - 2004 Individual SJ County Tax Divisions 1995 - 1997



 In 2004, municipal budgets increased at a smaller rate in the Pinelands than in the Non-Pinelands. State aid decreased in both regions, with the Pinelands experiencing a steeper decline in state funding.

| | Local Municipal Budget* | Budget Per Capita | Population Estimate | State Aid | State Aid Per Capita |
|--------------------|----------------------------|----------------------|------------------------|---------------|-------------------------|
| Pinelands 1996 | \$390,910,050 | \$648 | 591,420 | NA | NA |
| Pinelands 2000 | \$401,577,906 | \$638 | 615,984 | \$105,793,617 | \$174 |
| Pinelands 2004 | \$449,298,862 | \$660 | 657,971 | \$100,918,284 | \$160 |
| Change | 14.9% | 1.9% | 11.3% | -4.6% | -8.0% |
| Non-Pinelands 1996 | \$1,549,565,726 | \$948 | 1,612,610 | NA | NA |
| Non-Pinelands 2000 | \$1,588,551,142 | \$940 | 1,647,532 | \$303,413,714 | \$185 |
| Non-Pinelands 2004 | \$1,748,162,910 | \$969 | 1,692,777 | \$293,489,586 | \$172 |
| Change | 12.8% | 2.2% | 5.0% | -3.3% | -7.0% |

* = 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 in 2000, and municipal estimates for 2001 to 2004. The population estimate for 2003 was used to calculate per capita figures for 2004, as 2004 municipal estimates were not available when this report was prepared. Per capita figures for 2004 may be slightly inflated as a result of using the 2003 population estimate.

This variable has been upgraded to a core variable for this year's report and will be tracked annually in subsequent reports.

<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 budget of Pinelands municipalities increased faster than the Non-Pinelands from 1995 to 2003. The Pinelands municipal budget increased by 12% during this period, compared to 7% for the Non-Pinelands. Within the local budget, monies raised through local municipal purposes increased substantially (by 40% in the Pinelands and 14% in the Non-Pinelands) while monies raised through miscellaneous revenues were relatively stable (a decrease of 2% in the Pinelands and an increase of 1.5% in the Non-Pinelands).

While municipal revenues increased both inside and outside the Pinelands from 1995 to 2003, the amount of revenue collected per person has remained relatively the same. As a whole, the Pinelands municipalities collected \$666 in municipal revenues per capita in 1995 and \$663 per capita in 2003, a decrease of 0.5%. The Non-Pinelands municipalities collected \$973 per capita in 1995 versus \$986 in 2003, an increase of 1.3%. The increase in revenues corresponds with population increases. As the population increases, the ability 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 in both the Pinelands and Non-Pinelands since 1995. Per Capita revenues did not surpass 1995 levels until 2002 in the Non-Pinelands and 2003 in the Pinelands (Table F5a).

From 1995-2003, the Pinelands municipalities collected approximately \$300 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, 36% of Pinelands municipalities have no local police force, compared to 15% of Non-Pinelands municipalities (see 2003 Annual Report).

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 1999-2003, state aid decreased by 3% to Pinelands municipalities and by 5% to Non-Pinelands municipalities. Per capita rates decreased by 8% in the Pines and 7% in the Non-Pines. While there is quite a gulf between Pinelands and Non-Pinelands municipalities in terms of municipal revenues per capita, both regions receive a comparable amount of state aid per capita.

There is a large degree of variation among the Pinelands municipalities in terms of local municipal revenues and state aid. Municipal revenues have 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 from 1995 to 2003.

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 1995-2003.

<u>Update</u>

The total municipal budget for the Pinelands municipalities rose 2.9% in 2004 compared to a rise of 4.8% in the Non-Pinelands. However, it is likely that the actual per capita numbers tell a somewhat different story. At the time this report was prepared, population estimates had not yet been released for 2004. We do know that between 1999 and 2003 that population increased at an annual average rate of 1.7% in the Pinelands as opposed to an annual average increase of 0.7% in the Non-Pinelands. If we assume the same rates of growth in population for 2004, per capita municipal budgets in the Pinelands increased 1.3% in 2004 while rising by 4.0% in the Non-Pinelands for the year.

Total municipal state aid fell 4.7% in the Pinelands and dropped 1.1% in the Non-Pinelands in 2004. Once again making the assumption that population rate increases remained the same in the two regions for 2004, per capita state aid decreased by 6.3% in the Pinelands and fell 1.8% in the Non-Pinelands. For the period 1999-2004, 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, Wrightstown more than doubled their municipal budget in 2004 (from \$930,000 in 2003 to \$2 million in 2004) while Berlin Township, Egg Harbor City, Barnegat, and New Hanover all had increases between 10 and 20 percent. Estell Manor (-34%) and Plumsted (-24.8%) were the only Pinelands municipalities to have large decreases in their municipal budgets for 2004. Meanwhile, only five municipalities in the Pinelands had more state aid in 2004 than 2003 (Medford Lakes, Beachwood, New Hanover, Evesham, and South Toms River). All of those increases were less than 1%, however. Washington, Woodland, Estell Manor, and Bass River had decreases in state aid of more than 30% in 2004(-89.8%, -54.7%, -40.7%, and -32.2% respectively).

Table F5aLocal Municipal Purpose Revenues and State Aid for Pinelands and
Non-Pinelands Regions (In 2004 \$s)

| Region | Year | Local Municipal Purposes | Misc Revenues | Total Municipal Budget | Budget Per Capita | Population Estimate | State Aid | Aid Per Capita |
|----------|-------|--------------------------------|------------------|------------------------------|-------------------------|------------------------|----------------|-------------------|
| Pines | 1995 | \$131,906,433 | \$257,010,152 | \$388,916,585 | \$666 | 584,232 | | |
| Pines | 1996 | \$136,044,931 | \$254,865,118 | \$390,910,050 | \$661 | 591,420 | | |
| Pines | 1997 | \$140,348,840 | \$254,684,684 | \$395,033,524 | \$661 | 597,454 | | |
| Pines | 1998 | \$145,233,608 | \$253,990,515 | \$399,224,123 | \$660 | 604,928 | | |
| Pines | 1999 | \$151,903,517 | \$248,411,438 | \$400,314,955 | \$655 | 610,785 | \$108,644,733 | \$178 |
| Pines | 2000 | \$154,837,198 | \$246,740,709 | \$401,577,906 | \$652 | 615,984 | \$105,793,617 | \$172 |
| Pines | 2001 | \$166,450,096 | \$252,157,025 | \$418,607,120 | \$664 | 630,550 | \$108,641,058 | \$172 |
| Pines | 2002 | \$173,577,041 | \$255,415,022 | \$428,992,063 | \$666 | 643,787 | \$102,359,083 | \$159 |
| Pines | 2003 | \$184,870,815 | \$251,560,445 | \$436,431,259 | \$663 | 657,971 | \$105,858,830 | \$161 |
| Pines | 2004 | \$197,107,838 | \$252,191,023 | \$449,298,862 | \$683 | 657,971 | \$100,918,284 | \$153 |
| NonPines | 1995 | \$710,277,169 | \$848,716,256 | \$1,558,993,424 | \$973 | 1,601,776 | | |
| NonPines | 1996 | \$710,706,082 | \$838,859,644 | \$1,549,565,726 | \$961 | 1,612,610 | | |
| NonPines | 1997 | \$712,358,417 | \$841,918,216 | \$1,554,276,633 | \$958 | 1,622,388 | | |
| NonPines | 1998 | \$723,651,006 | \$861,759,908 | \$1,585,410,914 | \$972 | 1,630,733 | | |
| NonPines | 1999 | \$738,679,516 | \$843,320,273 | \$1,581,999,788 | \$965 | 1,639,053 | \$309,921,989 | \$189 |
| NonPines | 2000 | \$737,961,214 | \$850,589,928 | \$1,588,551,142 | \$964 | 1,647,532 | \$303,413,714 | \$184 |
| NonPines | 2001 | \$734,279,185 | \$849,699,363 | \$1,583,978,547 | \$954 | 1,660,123 | \$306,234,497 | \$184 |
| NonPines | 2002 | \$775,500,360 | \$866,618,307 | \$1,642,118,667 | \$979 | 1,678,078 | \$306,841,172 | \$183 |
| NonPines | 2003 | \$807,525,995 | \$861,086,686 | \$1,668,612,681 | \$986 | 1,692,777 | \$296,750,773 | \$175 |
| NonPines | 2004 | \$842,540,398 | \$905,622,514 | \$1,748,162,910 | \$1,033 | 1,692,777 | \$293,489,586 | \$173 |
| Pines | 99-04 | \$45,204,321 | \$3,779,585 | \$48,983,907 | \$28 | 47,186 | (\$7,726,449) | (\$24) |
| NonPines | 99-04 | \$103,860,882 | \$62,302,241 | \$166,163,122 | \$68 | 53,724 | (\$16,432,403) | (\$16) |
| Pines | 99-04 | 29.8% | 1.5% | 12.2% | 4.3% | 7.7% | -7.1% | -13.8% |
| NonPines | 99-04 | 14.1% | 7.4% | 10.5% | 7.0% | 3.3% | -5.3% | -8.3% |

| County | Municipality | Population | Municipal Budget* | State Aid | Budget Per | Aid Per |
|--------------|---------------------|------------|-------------------|--------------|---------------|----------------|
| County | municipanty | Est 2003 | Municipal Buuget | State Alu | Capita | Capita |
| Burlington | Washington | 637 | \$1,786,921 | \$131,663 | \$2,805 | \$207 |
| Burlington | Wrightstown | 749 | \$2,009,010 | \$533,084 | \$2,682 | \$712 |
| Atlantic | Egg Harbor City | 4,486 | \$5,598,011 | \$641,972 | \$1,248 | \$143 |
| Camden | Berlin Township | 5,360 | \$6,316,440 | \$1,578,038 | \$1,178 | \$294 |
| Camden | Chesilhurst | 1,756 | \$2,068,477 | \$864,220 | \$1,178 | \$492 |
| Ocean | Stafford | 24,318 | \$27,172,282 | \$3,200,680 | \$1,117 | \$132 |
| Cape May | Woodbine | 2,677 | \$2,873,723 | \$465,559 | \$1,073 | \$174 |
| Ocean | Eagleswood | 1,534 | \$1,570,047 | \$252,709 | \$1,023 | \$165 |
| Atlantic | Port Republic | 1,071 | \$1,061,514 | \$222,552 | \$991 | \$208 |
| Ocean | Lakehurst | 2,582 | \$2,501,256 | \$421,571 | \$969 | \$163 |
| Саре Мау | Upper | 11,965 | \$11,537,525 | \$6,550,911 | \$964 | \$548 |
| Ocean | Ocean | 7,214 | \$6,659,026 | \$816,838 | \$923 | \$113 |
| Burlington | Bass River | 1,562 | \$1,415,500 | \$218,264 | \$906 | \$140 |
| Burlington | Woodland | 1,354 | \$1,127,783 | \$222,462 | \$833 | \$164 |
| Ocean | Little Egg Harbor | 18,616 | \$15,434,022 | \$1,746,472 | \$829 | \$94 |
| Gloucester | Monroe | 30,427 | \$24,279,085 | \$5,324,647 | \$798 | \$175 |
| Ocean | Lacey | 26,240 | \$20,623,942 | \$11,814,597 | \$786 | \$450 |
| Burlington | Medford Lakes | 4,205 | \$3,152,093 | \$429,594 | \$750 | \$102 |
| Atlantic | Hammonton | 12,994 | \$9,699,552 | \$1,663,049 | \$746 | \$128 |
| Camden | Waterford | 10,645 | \$7,913,565 | \$1,497,095 | \$743 | \$141 |
| Ocean | Barnegat | 17,632 | \$12,996,288 | \$1,385,196 | \$737 | \$79 |
| Atlantic | Buena | 3,832 | \$2,809,855 | \$623,738 | \$733 | \$163 |
| Ocean | Berkeley | 42,247 | \$30,647,630 | \$5,600,302 | \$725 | \$133 |
| Burlington | Medford | 23,359 | \$16,760,646 | \$2,656,702 | \$718 | \$114 |
| Atlantic | Hamilton | 22,705 | \$16,239,117 | \$3,635,678 | \$715 | \$160 |
| Atlantic | Mullica | 6,038 | \$4,236,195 | \$665,614 | \$702 | \$110 |
| Atlantic | Egg Harbor Township | 35,061 | \$24,481,246 | \$7,053,519 | \$698 | \$201 |
| Cape May | Dennis | 6,338 | \$4,379,379 | \$1,755,517 | \$691 | \$277 |
| Ocean | South Toms River | 3,703 | \$2,469,824 | \$460,884 | \$667 | \$124 |
| Atlantic | Estell Manor | 1,657 | \$1,102,122 | \$259,363 | \$665 | \$157 |
| Burlington | Pemberton Township | 28,938 | \$18,629,718 | \$3,751,280 | \$644 | \$130 |
| Camden | Winslow | 35,150 | \$21,952,333 | \$7,892,048 | \$625 | \$225 |
| Ocean | Jackson | 49,644 | \$30,950,766 | \$4,518,033 | \$623 | \$91 |
| Atlantic | Folsom | 1,977 | \$1,217,199 | \$272,227 | \$616 | \$138 |
| Ocean | Beachwood | 10,712 | \$6,519,342 | \$905,285 | \$609 | \$85 |
| Burlington | Evesham | 46,111 | \$25,761,894 | \$4,270,182 | \$559 | \$93 |
| Ocean | Manchester | 42,228 | \$23,565,728 | \$4,123,761 | \$558 | \$98 |
| Gloucester | Franklin | 16,013 | \$8,916,172 | \$1,937,769 | \$557 | \$121 |
| Atlantic | Galloway | 34,221 | \$17,817,149 | \$3,445,662 | \$521 | \$101 |
| Atlantic | Buena Vista | 7,556 | \$3,819,292 | \$976,132 | \$505 | \$129 |
| Atlantic | Weymouth | 2,324 | \$1,059,355 | \$375,588 | \$456 | \$162 |
| Cumberland | Maurice River | 7,600 | \$3,158,493 | \$945,170 | \$416 | \$124 |
| Burlington | Tabernacle | 7,312 | \$2,987,476 | \$802,309 | \$409 | \$110 |
| Burlington | Southampton | 10,918 | \$4,396,490 | \$1,544,929 | \$403 | \$142 |
| Ocean | Plumsted | 8,034 | \$3,012,707 | \$666,757 | \$375 | \$83 |
| Burlington | Shamong | 6,749 | \$2,513,700 | \$710,027 | \$372 | \$105 |
| Burlington | New Hanover | 9,520 | \$2,098,972 | \$1,088,635 | \$220 | \$114 |
| "Outside" Mu | | 0,020 | φ2,000,072 | ψ1,000,000 | Ψ <u>2</u> 20 | דויש |
| Atlantic | Corbin City | 519 | \$615,931 | \$78,012 | \$1,187 | \$150 |
| Burlington | Springfield | 3,504 | \$2,926,817 | \$584,211 | \$835 | \$167 |
| Camden | Berlin Borough | 6,819 | \$5,268,136 | \$1,002,568 | \$773 | \$107 |
| Cumberland | Vineland | 57,057 | \$41,832,457 | \$8,106,398 | \$733 | \$147 \$142 |
| | North Hanover | 7,556 | | \$1,105,915 | \$369 | \$142 \$146 |
| Burlington | North Hanover | | \$2,784,602 | | \$ 208 | φ140 |

Table F5b Local Municipal Purpose Revenues and State Aid for Pinelands Municipalities in 2004

* Municipal budget = Local Municipal Purpose Revenues + Miscellaneous Revenues

5. Recommendations for Future Study

- Continue to investigate 2000 Census data at the block-group level in order to refine the analysis of current variables (per capita income) and to add new supplemental variables (place of work, housing, etc.) to subsequent reports.
- Obtain sub-municipal census data (census block group) back to 1980, so a thorough examination of the change in population, housing, and land use within the Pinelands boundary can be conducted. Such an exercise could evolve as a special study.
- Collect data prior to 1980, i.e. back to 1970. The collection and analysis of this data would enable a comparison of trends before and after the adoption of the CMP. This analysis could also evolve as a special study.
- Obtain sub-municipal data for non-Census indicators, such as employment establishments and real estate transactions, that have address information associated with them. These addresses can be used to pinpoint establishments and transactions to their specific locations inside and outside the Pinelands boundary by using a GIS roads data layer. Addresses of establishments and transactions are matched to addresses in the roads layer. Work on this process began in 2003 when a GIS roads layer was acquired, but technical and quality control problems were encountered. Work should continue into the future.
- Investigate using other statistical measures, such as median values and per capita figures, for some of the core variables.
- Explore the possibilities for obtaining recent municipal employment data.
- Complete the Municipal Fiscal Health study.
- Continue work on the Land Value Study.
- Begin work on Pinelands Development Credit Supply and Demand Study.

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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% |
| Саре Мау | 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

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Appendix C. Municipalities of South Jersey Municipalities of South Jersey റ് IJ, Jackson Nev Har Ŀ ĊŔ, Mar on T wp Laure 12 ParkB **₫** Neshat Tabernick Laœ dla nd Ocear 86 Light 6 **XX**7 ŝ Ek Bass River Uppe r Pi**t** sore Franklin В Mullic : Pit serove H 0^{cean} DDE field Hamilton Vista Vineland Ci ty 3 Mil Iville Cit y Egg Harb Estell Manor antic 1. Pt. Pleas ant B each 2. Pt. Pleas ant City Ri Bay Hea d
 Mantolokin g
 La vallette La vallette
 Seaside Hts.
 Seaside Park
 Island Hts.
 Ocean Gate
 Pine Beach
 South Toms River
 Resuburged De B eachwood
 Lakehurst
 Harvey Cedars 42. Westville 43. Brook lawn 44. Glouc ester City 45. Bellmawr Delaware N Isle City 15. Surf Cit y 16. Long Beach 17. Ventnor Bellmawr
 Runnemede
 Wood lynn e
 Mc. Ephraim
 Haddon Twp.
 Audubon Park
 Oakly n
 Collin gswood
 Colling gswood Middle Ventnor
 Marga te
 Longp ott
 Absecon
 Pleasa ntville
 Northfield
 Linwo od
 Summa Pr Bay53. Audubon Boro 54. Haddon Hts. 24. Somer s Pt. 25. N. Wild wood 26. Wildwo od Crest 27. W. Ca pe May 55. B arring ton Municipal Boundaries

County Boundaries

Pinelands Area

Map generated by NJ Pinelands Commission

GIS Laboratory December 19, 2002

Poi

Cape Ma y City

56. Ma gnolia 57. Lawnside 58. Tavistock

58. Tavistock 59. Haddonfie kl 60. Me rcha rtville 61. Somerd ale 62. Hi-Nella 63. Str atford 64. Laurel Springs 65. Lin denwold 66. Pin e Hill 67. Clemen ton 68. Pin o Yulhu y.

68. Pin eValle y 69. Gibbs boro 70. B erlin Bor o

71. Berlin Twp.

Chesil hurst
 Medford Lakes
 Mt. Holly
 Eastampton
 Penberton Boro

77. W i ghtstown 78. Riverside 79. Beveily

Bevely
 Edgewater Park
 Bordentown Twp.
 Fieldsboro

83. B ordentown City

28. Corbin 29. Weymouth 30. Shiloh 31. Elmer

Elmer
 Salem
 Salem
 Bidgeton
 Bidgeton
 Woodstown
 G. Swedesbro
 Pitman
 Paulsboro
 Wenonah
 Woodbury Hts.
 Woodbury City

Appendix D

Pinelands Management Areas

| Management 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 w ith 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 | | |

