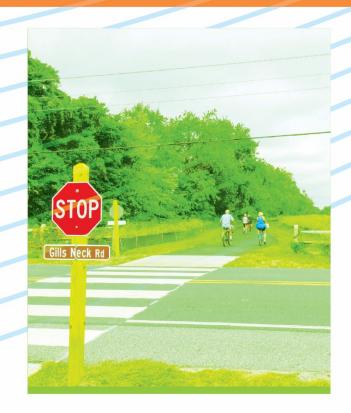




SUSSEX COUNTY COMPREHENSIVE PLAN







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Chapter 1. INTRODUCTION

1.1 THE SUSSEX COUNTY LANDSCAPE

Sussex County is the southernmost county in Delaware and is bordered by the Atlantic Ocean to the east, Kent County, Delaware, to the north, and Caroline, Dorchester, Wicomico, and Worcester Counties, Maryland, to the west and south (Figure 1.1-1). The County is within a 100-mile drive of Philadelphia, Baltimore, and Washington, D.C.

Sussex County has the largest land area of Delaware's three counties, spanning 938 square miles of land area, and has long been the State's leading agricultural producer. Sussex County's diverse landscape also encompasses small towns and growing population centers. The County contains 25 incorporated municipalities (Table 1.1-1).

Table 1.1-1 Sussex County Incorporated Municipalities								
Bethany Beach	Frankford	Millville						
Bethel	Georgetown	Milton						
Blades	Greenwood	Ocean View						
Bridgeville	Henlopen Acres	Rehoboth Beach						
Dagsboro	Laurel	Seaford						
Delmar	Lewes	Selbyville						
Dewey Beach	Milford	Slaughter Beach						
Ellendale	Millsboro	South Bethany						
Fenwick Island								

The eastern portion of Sussex County is characterized by popular, ocean-side seasonal vacation towns, fueling the booming tourism industry in the County. The western portion of Sussex County is the backbone of Delaware's agriculture industry and includes a greater number of acres of arable land under cultivation than anywhere else in the state.

Transportation routes in the County range from country roads to major highways (Figure 1.1-2). Major roadways include US routes 113, 13, and 9, and State Routes 1, 30, 23, 24, 26, 54, 404, and 16. Nearly all public roads in Sussex County are administered by the Delaware Department of Transportation (DelDOT), with the exception of roads within subdivisions. Bus service in the County is provided through DART First State and the Delaware Transit Corporation, an operating division of the DelDOT. Local rail lines in the County connect to the Norfolk Southern Rail Network. Sussex County is also home to the Delaware Coastal Airport and the privately-owned Laurel Airport. Additional information on the transportation network of Sussex County is provided in Chapter 13, Mobility.

Sussex County also shares almost 25 miles of coastline with the Atlantic Ocean, and 19 miles of coastline with the Delaware Bay. Major waterways in Sussex County include the Nanticoke, Mispillion, and Indian rivers. More information on the water resources of Sussex County is included in Chapter 5, Conservation.



Figure 1.1-1 Sussex County Regional Location

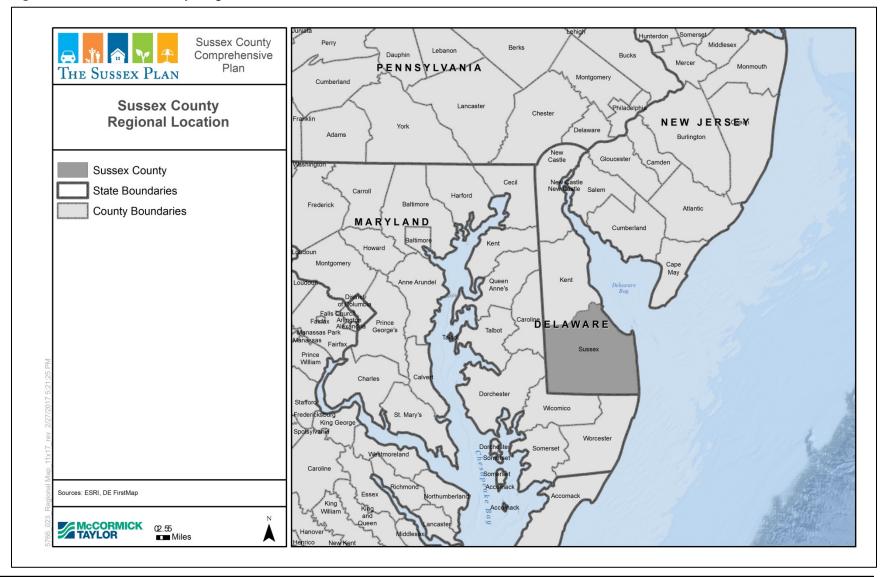
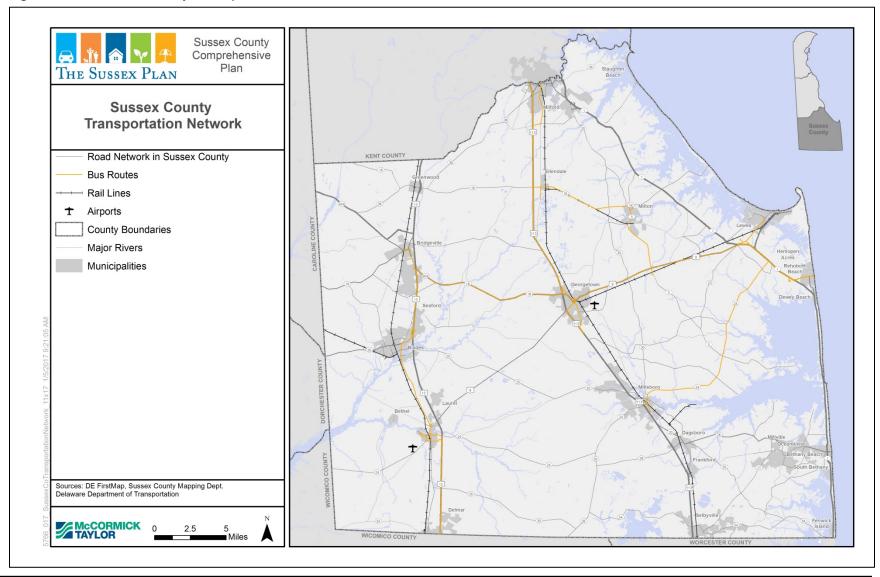




Figure 1.1-2 Sussex County Transportation Network





Today, Sussex County is the fastest growing county in Delaware due to its popularity as both a primary and secondary home destination. New residential development, along with Sussex County's strong agricultural industry and booming tourism industries, are generating substantial economic activity. The County's active economy and cost-conscience public sector management continue to foster low real estate tax rates for which Sussex County is also known.

1.2 SUSSEX COUNTY TRENDS

As part of the Sussex County Comprehensive Plan, the County conducted extensive research regarding changing demographics and population trends, as well as housing growth, transportation, economic development, and natural resource protection. The trends analysis enabled the County to identify issues and opportunities regarding future growth in the County, including the types of populations it will need to support, where growth should occur, and how to best prepare for and manage these changes.

1.2.1 Population Trends

Sussex County has been Delaware's fastest growing county, and the county is forecasted to remain in that position for the foreseeable future. The Delaware Population Consortium projects that at a minimum, the County is expected to have an additional 46,515 permanent residents living in it by 2045, and more than 23,960 additional seasonal residents. At an average of 2.52 persons per dwelling unit for the permanent population, and 3.3 persons per dwelling unit for the seasonal population, this could equate to approximately 18,458 new dwelling units for permanent residents and 2,200 new dwelling units for seasonal residents.

In addition, an understanding of the County's seasonal population is needed to have a full understanding of the impact of population growth on the County's resources, infrastructure, and demand for services. Both the U.S. Census and the DPC population numbers do not provide a full picture of County growth because the population data does not count seasonal residents. These additional residents in the County create increased traffic on roads, additional housing needs, and additional demands on utilities and services. Therefore, County population projections were adjusted to include a population estimate that is 15 percent higher than the DPC 2045 estimate. The methodology for reaching this revised estimate is described in Chapter 2. Population and Demographics and is also considered in chapters for planning purposes in order to account for any unforeseen spurs in population growth in the next several decades.

Growth is also bringing population diversity to Sussex County. Between 2000 and 2015, the population growth of white residents has outpaced the population growth of black and other non-white residents. In addition, the number of Hispanic residents grew rapidly during this same period.

While Sussex County's total population is growing, it is also becoming older. The median age increased from 44.6 years to 47 years between 2010 and 2015, an increase of 2.4 years. The highest growth occurred in the age groups between 50 and 69 years old (also known as the Baby



Boomer Generation). This was the fastest growing age group between 2000 and 2015, with an increase of 69 percent. This is not surprising given Sussex County's popularity as a retiree destination. Sussex County's lower tax rates, natural environment, quality of life and housing opportunities are attracting retirees, owners of second homes, and other older householders in great numbers. Some seasonal visitors buy a second home in Sussex with the intent that it will become their regular retirement home.

This aging population of Sussex County will have workforce preparedness effects in terms of potential skill deficits of older workers as well as generating demand for certain occupations to serve their needs, such as healthcare, long-term care, and transportation.

1.2.2 Development Trends

Between 2008 and 2015, over 10,000 building permits were issued for over 12,000 residential units and 2.4 million non-residential square footage of development in the unincorporated areas. The incorporated towns and cities also saw a large number of building permits between 2008 and 2015. In this time period, over 3,500 were issued for almost 4,200 residential units and three million nonresidential square feet. Approximately 25 percent of the total number of building permits issued in the County were for locations within incorporated towns and cities. Twenty-five percent of residential units and 55 percent of non-residential development approved through building permits has occurred within the towns and cities.

According to the County Planning and Zoning Department, the average density of new development has been approximately 1.9 dwelling units per acre in rural areas, and 2.5 dwelling units per acre in growth areas. As a result, land acreage is being consumed rapidly, particularly in rural areas since the average density is lower in these areas. Although more building permits are being issued in growth areas (approximately 55 percent of permits) than in rural areas (approximately 45 percent of permits), more land is being consumed in rural areas than in growth areas. If similar development trends continue into the future, the County may see approximately 10,000 additional acres of land developed, with almost 50 percent of it in rural areas (note that this does not assume for any redevelopment).

Additionally, commercial development will be needed to support the new residential growth in the County. Data from the State of Delaware Department of Labor projects that the County will increase by approximately 8,250 jobs by 2024. Although official employment projections are not available past 2024, employment growth is expected to continue through 2045.

1.2.3 Emerging Trends, Issues, and Opportunities

 While population growth can have positive effects on the local economy, diversify communities and generate new tax revenues, other impacts are also likely including increased demands for infrastructure and public services. By understanding these changes, local officials can inform business and civic leaders and the public while developing plans for the future of Sussex County.



1.3 OVERVIEW OF THE COMPREHENSIVE PLAN

The Sussex County Comprehensive Plan (The Sussex Plan) is the statutorily-authorized comprehensive plan for the unincorporated portions of the County. The Plan strives to set a foundation for decision-making and provide the County with a roadmap to a future that will maintain and enhance the quality of life all residents enjoy.

Sussex County, Delaware, has statutory authority to prepare and implement a comprehensive plan under Delaware Code, Title 9, Chapter 69, The Code requires Delaware counties and municipalities to update their comprehensive plans every ten years. This plan will cover a 27-year period to the year 2045. It contains the following chapters:

- Introduction
- Population and Demographics
- Planning Process
- Future Land Use
- Conservation
- Recreation and Open Space
- Utilities
- Housing
- Economic Development
- Historic Preservation
- Intergovernmental Coordination
- Community Design
- Mobility

1.4 PURPOSE OF THE COMPREHENSIVE PLAN

The Sussex Plan is the County's official policy guide for future development-related decisions. The Plan is long-range in nature and provides a framework for County residents and decision-makers to conceptualize how the County should look and function through the year 2045. Implementation strategies are identified within each chapter of the Plan, all or a portion of which may be utilized to accomplish the goals and objectives for topic areas addressed in the Sussex Plan.

The major purposes of the Sussex Plan are to:

- Serve as a guide for future ordinances, development, redevelopment, and preservation in the County;
- Enhance the quality of life for residents by planning for the future;
- Provide a snapshot of existing conditions;



- Determine an overall vision of the County and what it aspires to be in the future;
- Set a realistic action plan;
- Promote a collaboration of stakeholders and residents in the planning process; and
- Fulfill the legal requirement of Title 9, Chapter 69 of the Delaware Code.

1.5 THE COMPREHENSIVE PLAN AND COUNTY CODE

While the Comprehensive plan acts as a policy guide for future development and decision-making, County Code regulates the use of land and creation of lots and associated improvements. There are two primary ordinances in County Code that do this.

1.5.1 The Zoning Ordinance

The Zoning Ordinance is the primary legal tool to regulate the uses of land and buildings. The Zoning Ordinance includes a Zoning Map that divides the unincorporated areas of the County into different zoning districts. Each district permits a set of activities and establishes a maximum density of development. In addition to regulating land uses and densities, zoning also controls the following:

- The heights of buildings;
- The minimum distances that buildings may be placed from streets and property lines;
- The minimum size of lots;
- The maximum sizes and heights of signs; and
- The protection of important natural features.

1.5.2 The Subdivision Ordinance

The County's Subdivision Ordinance mainly regulates the creation of new lots, the construction of new streets by developers, and related improvements associated with new development.

1.6 THE COMPREHENSIVE PLAN VISION STATEMENT

In collaboration with local communities, stakeholders, officials, partners, and the public, a Vision Statement was developed for the Sussex Plan. The Vision Statement sets the overall tone for a comprehensive plan and sets the direction the Plan is to take in the future based on local input and desires.

For the Sussex Plan, the Vision Statement is as follows:



"Sussex County offers a unique quality of life for its residents and visitors alike. We appreciate and seek to preserve its unique natural, historical and agricultural character while fostering new economic opportunities, community vitality, and desirable growth through strategic investments and efficient use of County resources. To accomplish this, Sussex County will balance the welfare of its citizens and its role as an agricultural, tourism, and business leader with the most appropriate future uses of land, water and other resources."

In addition, each element of the Sussex Plan contains its own Vision Statement, which appears at the beginning of each chapter. Each chapter concludes with a list of specific goals, objectives, and strategies which will be utilized to help achieve the County's Vision.





Chapter 2. POPULATION AND DEMOGRAPHICS

2.1 POPULATION

Sussex County is currently home to over 215,622 permanent residents according to the Census's July 1, 2015 population estimate (US Census, 2016). It is the fastest growing county in Delaware, and has experienced strong growth since 1950, particularly in recent decades (Table 2.1-1).

Table 2.1-1 Sussex County Historical Population Trends							
YEAR	POPULATION	PERCENT CHANGE					
1950	61,336	-					
1960	73,195	19					
1970	80,356	10					
1980	98,004	22					
1990	113,229	16					
2000	156,638	38					
2010	197,145	26					
July 1, 2015 (estimate)	215,622	9					

Source: US Census Bureau, 2016

As compared to the State of Delaware, Sussex County has grown almost 70 percentage points faster at approximately 169 percent in the past 50 years (Table 2.1-2).

Table 2.1-2 Population Change, 1960-2010									
	TOTAL PO	PULATION	ABSOLUTE	GROWTH					
GEOGRAPHY	1960	2010	CHANGE	RATE					
State of Delaware	446,292	899,778	453,486	102%					
Kent	65,651	162,978	97,327	148%					
New Castle	307,446	538,912	231,466	75%					
Sussex	73,195	197,145	123,950	169%					

Source: US Census Bureau, 2016

Even in recent years, Sussex County continues to grow faster than all of its neighboring counties, including its Maryland neighbors (Table 2.1-3 and Figure 2.1-1). Over the 15-year period from 2000 to 2015, Sussex County grew at a rate of 37 percent, slightly higher than Kent County (36.5 percent).

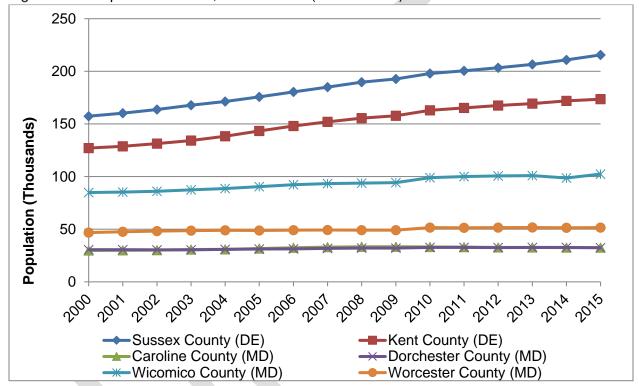
Table 2.1-3 Neighboring County Population Comparison, 2000 to 2015									
	2000		2010		2015				
COUNTY	TOTAL	% CHANGE	TOTAL	% CHANGE (2000-10)	TOTAL	% CHANGE (2010-15)	% CHANGE (2000-15)		
Sussex County, DE	157,389	n/a	197,145	25.3%	215,622	8.9%	37.0%		
Kent County, DE	127,109	n/a	162,922	28.2%	173,533	6.5%	36.5%		



Caroline County, MD	29,828	n/a	33,069	10.9%	32,579	-1.5%	9.2%
Dorchester County, MD	30,586	n/a	32,682	6.9%	32,384	-0.9%	5.9%
Wicomico County, MD	84,864	n/a	98,905	16.5%	102,370	3.5%	20.6%
Worcester County, MD	46,772	n/a	51,470	10%	51,540	0.1%	10.2%

Source: US Census Bureau, 2016

Figure 2.1-1 Population Growth, 2000 to 2015 (in thousands)



Source: US Census Bureau, 2016

The Delaware Population Consortium (DPC) projects that Sussex County will continue to grow in population by 2045. The DPC is a cooperative organization in Delaware that is comprised of state, county, and local governments. Each year the DPC produces a set of population projections for the state, the three counties, and major municipalities in Delaware. According to the DPC's Annual Population Projections released on October 27, 2016, there will be over 260,000 permanent residents living in Sussex County by 2045. Table 2.1-4 below depicts the Delaware Population Consortium's population projections for permanent residents in Delaware and its counties.



Table 2.1-4 Delaware Population Consortium Permanent Resident Population Projections of Sussex County Compared to other Delaware Counties and the State

	2010	2015	2020	2025	2030	2035	2040	2045
Kent	162,978	173,529	180,912	187,199	193,038	198,264	202,731	206,665
New Castle	538,912	555,786	572,820	586,643	595,664	601,298	603,667	603,523
Sussex	197,888	215,622	229,479	240,825	248,810	254,531	258,760	262,137
State of Delaware	899,778	945,937	983,211	1,014,667	1,037,512	1,054,093	1,065,168	1,072,325
Total		,	,			, ,	, ,	, ,

Source: Delaware Population Consortium, 2016

It is important to note that both the U.S. Census and the DPC population numbers do not provide a full picture of County growth because the population data does not count seasonal residents. This is particularly important in Sussex County which is popular as both a primary and secondary home destination. According to the U.S. Census, Sussex County had an estimated 37,501 seasonal housing units in 2015. During peak vacation season, those homes could be accommodating over 93,000 additional people if an average of 2.5 people (the average household size in Sussex) were inhabiting each of the seasonal units. If an average of four people were inhabiting each unit, that number would grow to over 150,000 additional residents during the peak season.

An understanding of the County's seasonal population is needed to have a full understanding of the impact of population growth on the County's resources, infrastructure, and demand for services. Sussex County is a draw for seasonal visitors and other tourists, and tourism has become an indispensable part of the local economy. At the same time, it is important to consider how seasonal residents and tourists impact the County's housing supply, roads, utilities, and natural environment. Additional residents in the County, whether permanent or seasonal, create increased traffic on roads, additional housing needs, and additional demands on utilities and services. Cumulatively, these changes can adversely affect the natural environment. In addition, in recent years the County has seen growth of the tourism season. Historically, peak tourist season in the County occurred between late May and early September. More recently, the tourism industry has created more attractions and events to extend the peak season from as early as April to as late as November.

At the request of the Sussex County Planning and Zoning Commission as part of this Comprehensive Plan process, the DPC prepared seasonal population projections for Sussex County (Table 2.1-5). The seasonal projections assume an 80% occupancy and 3.3 persons per seasonal household. When the seasonal population of the County is accounted for during peak vacation season, the peak population of the County may be as high as 385,100 in 2045. It is also important to note that this number does not include seasonal visitors staying in hotels, motels, campgrounds or visitors who come for the day and return home at night.



Table 2.1-5 Delaware Population Consortium Permanent and Seasonal Resident Population Projections for Sussex County								
	2010	2015	2020	2025	2030	2035	2040	2045
Permanent Residents	197,888	215,622	229,479	240,825	248,810	254,531	258,760	262,137
Seasonal Residents	91,793	99,003	107,164	112,693	118,508	120,523	122,572	122,963
Total Population	288,938	314,379	336,643	353,518	367,318	375,054	381,332	385,100

Source: Delaware Population Consortium, 2016

While the Delaware Population Consortium has been the primary source of population projections for counties and cities in Delaware, other independent sources have also prepared population projections for Sussex County. One such report prepared by Robert Siegel & Associates, Inc. in April 2017, suggests that the total population of Sussex County during the peak season may grow even higher than the DPC's 385,100 estimate in 2045. The report estimates that there is a possibility of 495,810 people by 2045 (351,801 permanent residents plus 144,009 seasonal residents). This estimate hinges on sharp population growth of permanent residents driven by new economic development and employment. Historically, population growth in Sussex has been driven by natural increase (births minus deaths) and migration (retirees).

While realization of the 2045 population numbers in the Siegel report may be possible in Sussex County's future, a more likely scenario may be a population estimate somewhere between the DPC and Siegel numbers. At the request of the County Planning and Zoning Commission, a population estimate that is 15% higher than the DPC 2045 estimate is also considered in chapters for planning purposes, in order to account for any unforeseen spurs in population growth in the next several decades.

2.2 DEMOGRAPHICS

Growth is also bringing population diversity to Sussex County. This section presents information on demographics of Sussex County's population. Note that demographic level information is only available for the Sussex County's permanent population and not the seasonal residents. Additional demographic information is presented in the Economic Development and Housing Chapters.

Between 2000 and 2015, the population growth of white residents has outpaced the population growth of black and other non-white residents. In addition, the number of Hispanic residents grew rapidly during this same period.



Table 2.2-1 Sussex County Ethnicity and Race Trends								
RACE/ETHNICITY	2000 POPULATION	2015 POPULATION	2000-2015 PERCENT CHANGE					
White Alone (Non-Hispanic)	125,857	161,290	28%					
Black Alone (Non-Hispanic)	23,319	26,320	13%					
Other Races, Including Two or More Races, Non-Hispanic Population	7,462	7,608	2%					
Hispanic of Any Race	6,915	20,404	195%					

Source: US Census Bureau, 2016; Delaware Population Consortium, 2016

The DPC also includes demographic information in its annual population projections (Table 2.2-2). In terms of population number, white residents will continue to comprise the largest proportion of Sussex County's population in 2045. However, there will be notable growth in the black population, other races, and Hispanic populations between 2015 and 2045.

Table 2.2-2 Sussex County Ethnicity and Race Projections								
RACE/ETHNICITY	2015	2020	2025	2030	2035	2040	2045	PERCENT CHANGE 2015-2045
White Alone (Non- Hispanic)	161,290	169,975	176,309	179,139	179,553	178,677	177,399	10%
Black Alone (Non- Hispanic)	26,320	27,976	29,512	30,982	32,427	33,888	35,364	34%
Other Races, Including Two or More Races, Non- Hispanic Population	7,608	8,634	9,538	10,265	10,695	10,757	10,467	38%
Hispanic of Any Race	20,404	22,894	25,466	28,424	31,856	35,438	38,907	91%

While Sussex County's total population is growing, it is also becoming older. The median age increased from 44.6 years to 47 years between 2010 and 2015, an increase of 2.4 years. The increase in median age was significantly greater than the State's increase of 1 years and greater than the counties in Delaware and neighboring counties in Maryland (Table 2.2-3).

Table 2.2-3 Change in Median Age, 2010-2015								
	MEDIA	ABSOLUTE CHANGE						
GEOGRAPHY	2010	2015	2010-2015					
State of Delaware	38.3	39.3	2.6%					
Sussex County	44.6	47.0	5.1%					
Kent County, DE	36.1	37.0	2.4%					



New Castle County, DE	37.2	37.5	0.8%
Caroline County, MD	37.8	40.1	5.7%
Dorchester County, MD	43.1	43.8	1.6%
Wicomico County, MD	35.7	35.5	-0.6%
Worcester County, MD	47.5	49.1	3.3%

Source: US Census Bureau, American Community Survey

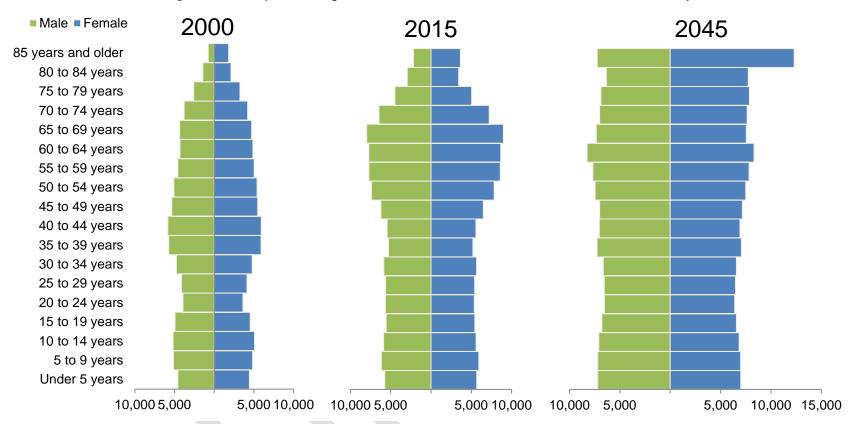
The aging population is apparent in the population age distribution between 2000 and 2015 (Figure 2.2-1). The highest growth occurred in the age groups between 50 and 69 years old (also known as the Baby Boomer Generation). This was the fastest growing age group between 2000 and 2015, with an increase of 69%. This is not surprising given Sussex County's popularity as a retiree destination. Sussex County's lower tax rates, natural environment, quality of life and housing opportunities are attracting retirees, owners of second homes, and other older householders in great numbers. Some seasonal visitors buy a second home in Sussex with the intent that it will become their regular retirement home.

As the Baby Boomer population group continues to age through 2045, it moves up in the population pyramid. The largest increase in population will be in the 85+ demographic which is expected to see a 235% increase by 2045.

This aging population of Sussex County will have workforce preparedness effects in terms of potential skill deficits of older workers as well as generating demand for certain occupations to serve their needs, such as healthcare, long-term care, and transportation. These issues are discussed in the below sections as well as in other chapters of the plan.



Figure 2.2-1 Population Age Distribution, 2000, 2015, and 2045 in Sussex County, DE



Source: US Census Bureau, Delaware Population Consortium



2.3 IMPLICATIONS OF POPULATION GROWTH

Sussex County has been the state's fastest growing County and is forecasted to remain in that position for the foreseeable future. While population growth can have positive effects on the local economy, diversify communities and generate new tax revenues, other impacts are also likely including increased demands for infrastructure and public services. By understanding these changes, local officials can inform business and civic leaders and the public while developing plans for the future of Sussex County. Some of the notable changes created by growth include:

- The need for more new schools and school expansions. While the State has
 traditionally funded much of these costs, State financial resources are constrained and
 currently subject to great demands. Fortunately for Sussex County schools and for the
 State's school funding situation, many new Sussex County residents are retirees or other
 older people without school-age children.
- More central water and sewer services. Population growth, increased housing density, and heightened concerns for surface and groundwater quality means that new water and sewer service areas must be created, and existing ones expanded. In addition, the degradation of water quality of individual/private wells and the failure of on-site septic systems will also create demands for sewer and water services in the future. While customers and rate payers will bare most of these costs, additional capital planning and investment will be required
- More traffic and traffic congestion. Low density housing and single-use development generates more household trips that depend entirely on automobiles. Demand for more roadway capacity (additional lanes, new roads and improved intersections) requires considerable investment of new public capital. Traditional sources of transportation funding, like motor fuel taxes are diminishing and falling short of growing needs. Better community design, pedestrian and bicycle connections, mixed use development, travel demand management strategies and transportation alternatives can reduce and delay growing demands for more roadway capacity.
- More health care, social, and para-transit services. As population increases and median age continues to increase in Sussex County, more health-related services will be needed, affecting both hospitals and other health care providers. As health care costs increase and more of the population is under insured, demand for public health services will increase requiring more public funding sources. Also, income households create more demand for publicly-funded social services and non-traditional para-transit services.
- More affordable housing. Reflecting national trends, market prices for Sussex County homes and apartments have been steadily increasing. This trend also reflects the County's popularity as a first home and second home destination. Housing cost increases will continue to put safe and decent housing out of the reach of many low- and moderateincome households. This will further exacerbate the County's affordable housing challenges.



• More public recreation land, recreation facilities, and open space. As the Sussex County population increases and diversifies, expectations and demands for more parks, recreational opportunities, and outdoor activities are likely to grow. At the same time, increases in personal leisure time and leisure time activities for active retirees have generated growing interests in new sports, both active and passive. Young people of school age now participate in multiple sports including baseball, basketball, lacrosse, and soccer. Many Sussex County seniors and retirees have expressed their growing interest in active lifestyles demanding amenities such as sidewalks, trails, and pickleball courts. Outdoor enthusiasts of all ages with interests in camping, hiking, and kayaking are looking for access to woodlands, waterways, and other natural areas.

As Sussex County's population continues to change and grow, it will be important to identify opportunities to address or more effectively manage potential impacts to local land use, environmental resources, economic development initiatives, and infrastructure – including transportation mobility. With the right planning mechanisms in place, and a desire to realize the Vision statements set forth in this Plan, the County will be able meet the needs of all residents who choose to make Sussex County their home.





Chapter 3. PLANNING PROCESS

3.1 OVERVIEW

In accordance with Delaware law, under Delaware Code, Title 9, Chapter 69, the three counties of Delaware are required to update their comprehensive plan every ten years. Sussex County adopted the last comprehensive plan in 2008 and began the update process in 2016 with a goal of adopting the update in June 2018. The following description provides an overview of the process followed to draft and adopt the Sussex County Comprehensive Plan. It represents a thoroughly-tested process of data collection and interpretation, assessment of trends, development of growth projections, exploration of alternative futures, and the preparation of all appropriate and required plan elements.

The comprehensive planning process involves the whole community, including the Sussex County staff, Sussex County Council, Sussex County Planning and Zoning Commission, stakeholders, and citizens. The Planning and Zoning Commission took a hands-on role in developing the Draft Comprehensive Plan in advance of handing it off to the County Council for review and adoption.

The Sussex County Comprehensive Plan process began with an existing conditions analysis in order to have sound understanding of recent market trends, current economic conditions, demographics, housing stock, and land uses. Based on the existing conditions analysis, significant planning issues, such as development, water supply, stormwater management, and conservation, were determined. From here, the public helped to identify goals and opportunities. The community also explored alternative futures in order to develop a consensus-driven, common future for the County. The Draft Comprehensive Plan was then built-on the above framework.

Public outreach was the driving force for the direction of the Comprehensive Plan Update. The public's involvement was weaved throughout each stage of the planning process, drawing on stakeholders to represent their community's concerns, and enlisting the community at-large to inform the process.

3.2 WORK PROGRAM SCHEDULE

The work program schedule is the approach to preparing a comprehensive plan. The Sussex County Comprehensive Plan work schedule was developed at the start of the planning process to guide four phases of the planning process. The four phases are Identifying Opportunities, Visioning/Development Framework, Draft County Comprehensive Plan, and Prepare Final Comprehensive Plan. The work plan schedule allotted a period of 22 months for the entire planning process.

3.2.1 Phase A: Identifying Opportunities

Vital to the Sussex County Comprehensive Plan Update, a current snapshot of the County was created in order to understand how recent trends would impact the County in the future. Included



in this phase was exhaustive research into a broad inventory of existing conditions and an analysis of market trends. From this assessment, County Staff, the Commission, stakeholders, and the public identified goals and opportunities for the future that could shape the County's vision. Phase A was a six month process.

Public and Stakeholder Input

- Planning and Zoning Commission Meetings The Sussex County Planning Zoning
 and Commission held frequent workshops on the Sussex County Comprehensive Plan
 Update. The workshops, held from November 2016 through June 2017, were deep dives
 into the elements of the Comprehensive Plan to ensure they are aligned with the
 community's vision for Sussex County. The public was welcome to attend and could
 submit comments at the beginning, but not during the workshop.
- Stakeholder Focus Groups Four focus groups were convened between June 2016 and September 2016. Topics included housing; utilities, natural resources, open space and recreation; and agriculture and forestry. Invitations were sent to people identified with important knowledge to share. Questions about the discussion topics were sent in advance. The purpose was to identify short-term (5 years), mid-term (5-15 years), and long-term (15-25 years) considerations for each topic.
- Public Meetings A round of five public meetings, in an open house format, were held
 at the culmination of Phase A to provide input on and review the data gathered as part of
 this phase. Comment cards and a survey captured the public's input on the major planning
 issues facing the County, goals for the future, and the identified trends. The Phase A. See
 Fall 2016 Public Meetings in Section 3.3 for more information.
- County Leader Interviews Individual interviews of the Sussex County Planning and Zoning Commission and Sussex County Council were conducted in July 2016 to help inform the current snapshot of Sussex County. Topics included transportation, housing, development, economy, environment, and socioeconomic issues.

3.2.2 Phase B: Visioning/Development Framework

During this phase, those involved dove into the question – *What do we want our County to look like in 2045?* This was an opportunity to be visionary about what land use would look like and which transportation and mobility elements need improvement. To achieve this, the work in this phase focused on the systematic exploration of selected planning issues and alternative futures for both development and conservation. This phase provided the opportunity to analyze the transportation implications of these alternative futures and to consider opportunities to develop a transportation system that supports the goals of Sussex County identified in Phase A. County. Phase B was a five month process.

Public and Stakeholder Input



- Planning and Zoning Commission Meetings The Sussex County Planning Zoning and Commission workshops continued during this phase, which included ongoing opportunities for public and stakeholder input.
- **Public Meetings** A round of five public meetings, held throughout the County, were hosted at the culmination of Phase B to provide input on the alternative development themes and concepts as well as the future land use plan. See Spring 2017 Public Meetings in Section 3.3 for more information.

3.2.3 Phase C: Draft County Comprehensive Plan

Drawing on the issues and goals identified in the previous two phases, this is when the pen was put to paper. Each element of the Plan was prepared first as preliminary drafts with accompanying action and associated implementation strategies. The consultant team then assembled each chapter element into the overall Draft Comprehensive Plan. This phase took seven months to complete.

Public and Stakeholder Input

- Planning and Zoning Commission Meetings The Sussex County Planning Zoning and Commission workshops continued during this phase, which included ongoing opportunities for public and stakeholder input.
- Public Meeting One public meeting was hosted at the culmination of Phase C to provide input on the elements of the Draft Plan. See Fall 2017 Public Meeting in Section 3.3 for more information.
- Public Hearing The County Planning and Zoning Commission held one public hearing
 was held where stakeholders and the general public will be able to submit verbal and
 written testimony about the Draft Comprehensive Plan. See Fall 2017 Public Hearing in
 Section 3.3 for more information.

3.2.4 Phase D: Prepare Final Draft and Final Comprehensive Plan

Following the public presentation of the Draft Comprehensive Plan during Phase C, revisions to the Draft are to be made in coordination with County Council, County staff, and the public into a Final Draft Comprehensive Plan document. This document will be submitted to the Delaware Office of State Planning Coordination for review and comment as part of its Preliminary Land Use Service (PLUS) approval process. More information on the PLUS process is described in section 3.4.1.

The Final Draft Comprehensive Plan will then be presented to County Council, key stakeholders, and the general public during a formal Public Hearing. Further changes to the Plan will discussed, and a Summary Plan will be prepared to produce the Final Comprehensive Plan. At this point in the plan development process, it is anticipated the County Council will take formal action to adopt the Final Comprehensive Plan. Printed and electronic copies of the adopted Final Comprehensive Plan would be delivered to Sussex County.



Public and Stakeholder Input

- County Council Workshop Meetings The Sussex County Council workshops continued during this phase, which included ongoing opportunities for public and stakeholder input.
- Public Hearing The County Council will hold one public hearing where stakeholders and the general public are able to submit verbal and written testimony about the Final Draft Comprehensive Plan. See Summer 2018 Public Hearing in Section 3.3 for more information.

3.3 PUBLIC INVOLVEMENT PROCESS AND OUTCOMES

Public involvement has been a critical component in the development of the Plan. Various methods were used for collecting feedback and providing opportunities to ask questions about the Plan and the process. These opportunities occurred through public meetings, the project website, social media and commission meetings. Three sets of public meetings were held throughout the County for a total of 11 public meetings. There was one public hearing.

3.3.1 Public Meetings

Three (3) rounds of open houses were hosted throughout the County.

Fall 2016 Public Meetings

The purpose of the open house style public meetings was to foster discussion that informed the Plan. At these meetings members of the public shared their perspectives on the County's assets and challenges, identified issues and areas that may need special attention, reviewed previously identified issues and opportunities, and learned about the comprehensive plan process. Attendees could comment on each of the elements of the Plan as well as the capital improvements plan. A total of 868 written comments were received. A majority of the comments were focused on transportation, land use, conservation, and economic development. Additionally, a public survey on the future of Sussex County was released. The open houses were held at the following locations in an attempt to reach as many residents as possible throughout the County.

- Monday, September 26, 2016
 Lewes Fire Station No. 2 Lewes, Delaware
- Tuesday, September 27, 2016
 Millsboro Town Center Millsboro, Delaware
- Thursday, September 29, 2106
 Seaford Fire Hall Seaford, Delaware
- Tuesday, October 4, 2016
 Georgetown Fire Hall Georgetown, Delaware
- Wednesday, October 5, 2016
 Millville Fire Hall Millville, Delaware



Spring 2017 Public Meetings

At this point in the process, the public was invited to explore land use and transportation alternative development themes as well as to and to provide feedback on the vision; identified trends, data, and community information received; and draft goals, objectives, and strategies. The public meetings included a presentation on the future land use element, a question and answer session, and a land use element survey and exercise. Feedback gathered during this second round of Public Meetings was used to improve and shape the Draft Comprehensive Plan. The public meetings were held at the following locations in an attempt to reach as many residents as possible throughout the County.

- May 1, 2017
 Laurel Fire Department Laurel, Delaware
- Tuesday, May 2, 2017
 Cheer Center Georgetown Georgetown, Delaware
- Wednesday, May 3, 2017
 Frankford Fire Department Frankford, Delaware
- Wednesday, May 10, 2017
 Milford Senior Center Milford, Delaware
- Tuesday May 16, 2017
 Beacon Middle School Lewes, Delaware

Fall 2017 Public Meeting

The purpose of this public meeting was to present the Draft Comprehensive Plan and draft future land use map to stakeholders and the public. It was an opportunity to review a presentation on the elements of the Draft Comprehensive Plan, ask questions, and submit comments.

Date: Wednesday October 11, 2017 **Times:** Open House – 12 p.m. - 7:30 p.m.

Presentations – 12:30 p.m., 3:30 p.m. and 6:00 p.m.

Location: Cheer Center

20520 Sand Hill Road, Georgetown, DE 19947

Fall 2017 Public Hearing

The purpose of the public hearing is for the Planning and Zoning Commission to review and receive comments from key stakeholders and the general public on the County's Final Draft Comprehensive Plan. Interested persons were able to provide verbal and written testimony during the hearing.



Date: Thursday, November 2, 2017

Time: 6:00 p.m.

Location: Council Chambers

2 The Circle, Georgetown, DE 19947

Summer 2018 Public Hearing

The purpose of the public hearing is for the County Council to review and receive comments from State planning officials, key stakeholders and the general public on the County's Final Draft Comprehensive Plan.

Date: TBD Time: TBD

Location: Council Chambers

2 The Circle, Georgetown, DE 19947

3.3.2 Online Collection of Feedback

The dedicated Plan website (www.sussexplan.com) was created as a resource and storing house for any information related to the Sussex Comprehensive Plan Update and as tool for public input. The website allowed Sussex County residents with internet access to familiarize themselves the planning process, read draft chapters, find planning resources, learn about news and upcoming public meetings, provide input on the Plan, and read feedback from others. On the website, users could subscribe for email notifications of upcoming meetings. Users could submit comments via a contact form. The public survey conducted during Phase A was also available to take online. All comments were made part of the public record.

A Facebook page and Twitter account also were created for the Sussex County Comprehensive Plan. Here, followers could receive notices about upcoming meetings, view video of the County Planning and Zoning Commission workshops, and receive direction on how to provide input.

3.4 PLAN REVIEW, APPROVAL AND ADOPTION

Under Chapter 92 of Title 29 of the Delaware Code, comprehensive plans are subject to review by the Preliminary Land Use Service (PLUS). PLUS ensures that local land use decisions are compatible and consistent with plans and policies at all levels of the government. The PLUS process involves reviews by all applicable state agencies, adding value and knowledge to the process without taking over the authority of local governments to make land use decisions. Typical state agency contributors are:

- Department of Transportation
- Department of Natural Resources and Environmental Control
- State Housing Authority



- State Fire Marshall
- Department of Agriculture
- Public Service Commission
- Department of Health and Social Services, Division of Public Health
- Economic Development Office
- Department of Education

3.4.1 PLUS Approval Process

General PLUS approval process for Comprehensive Plans is as follows:

- **Step 1:** Draft Comprehensive Plan prepared by local government
- **Step 2:** Planning Commission and/or Legislative Body approves Draft Plan to send to PLUS
- **Step 3:** PLUS meeting, application submitted by first business day of the month for that month's meeting
- **Step 4:** State comments submitted to local government within 20 business days of meeting
- **Step 5:** Local government replies to state comments in writing and submits revised plan (if necessary) to the Office of State Planning Coordination (OSPC) for review
- **Step 6:** OSPC requires 20 working days to reply to revised plan. State sends a letter accepting changes or noting discussion items or if no changes are necessary see step 7
- **Step 7:** Certification letter will be sent within 10 business days of final submission to OSPC

Following PLUS certification, Sussex County Council is anticipated to take formal action to adopt the Final Comprehensive Plan. Upon adoption, a copy of the final document and written notification of adoption would be sent to OSPC.

3.5 IMPLEMENTATION

Following the adoption of the Comprehensive Plan County Council will embark on creating an implementation plan to determine when the strategies will be reviewed, considered, evaluated to ensure the plan is implemented throughout the next ten years. The County will continue to provide the State with an annual update of the implementation process. Council has taken initiative to consider strategies before the adoption of the plan.



CHAPTER 4. FUTURE LAND USE

<u>Future Land Use Vision</u>: To provide for balanced and well-planned future growth and development that supports the County's economic development goals while preserving the rural character of the County and its natural resources.

4.1 OVERVIEW

The Future Land Use chapter is the centerpiece of the Comprehensive Plan. The chapter creates a framework for achieving the Comprehensive Plan's overall vision and determining future development priorities. This chapter is comprised of a series of items that direct future development including the Future Land Use Map and goals, objectives, and strategies to be used to achieve the County's planning vision. These tools will provide long-term guidance to elected officials, developers, and planning and development staff who make decisions regarding land use, infrastructure, economic development, preservation, and capital improvements.

4.2 EXISTING LAND USE

Sussex County includes nearly half (48 percent) of the land area in Delaware. Most commercial activity and the majority of the County's population reside near three major north-south roadway corridors. State Route 1 runs along the Atlantic coastline through or near the County's major resort towns. U.S. 113 extends through the center of Sussex County from Milford to Georgetown and south to Selbyville. U.S. 13 connects the Town of Greenwood in the northern portion of the County to several western Sussex County towns and south to Salisbury, Maryland.

Many of the County's 25 incorporated municipalities also are located along the three main roadway corridors. The beach resorts along the Atlantic coast are the most populous and highly developed of these towns. However, other incorporated towns and cities and the areas immediately adjacent to them serve as population and commerce centers in locations throughout the County. Each incorporated town makes its own land use planning and other policy decisions.

While the land in and around the towns and the major roadway corridors is the location for most of the residential and commercial land uses in the County, agriculture and undeveloped lands make up the majority of the existing land use of the County (approximately 85 percent). These lands face development pressure as the population of the County continues to grow.

The Existing Land Use map on the next page depicts the existing land uses in Sussex County. A second map, titled Developed and Protected Lands shows developed areas compared with lands already preserved and lands in agricultural preservation districts.



Figure 4.2-1 Existing Land Use

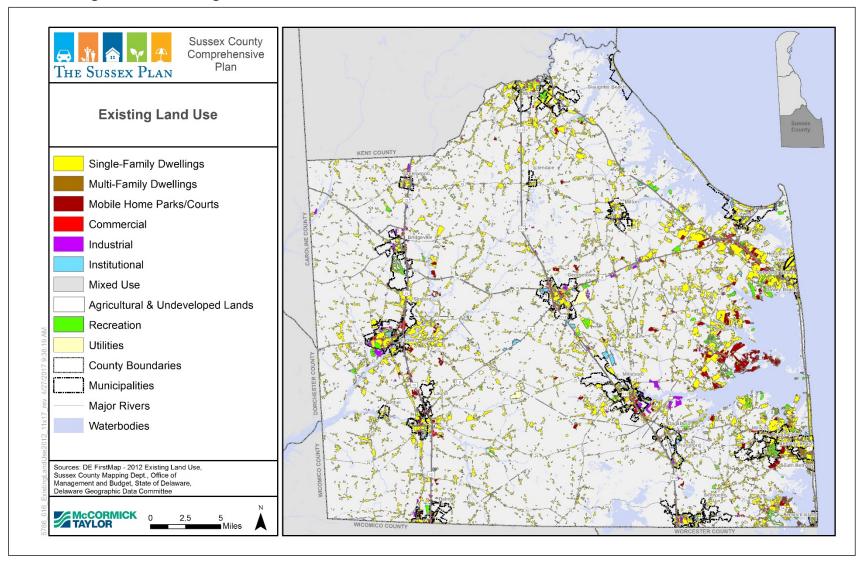
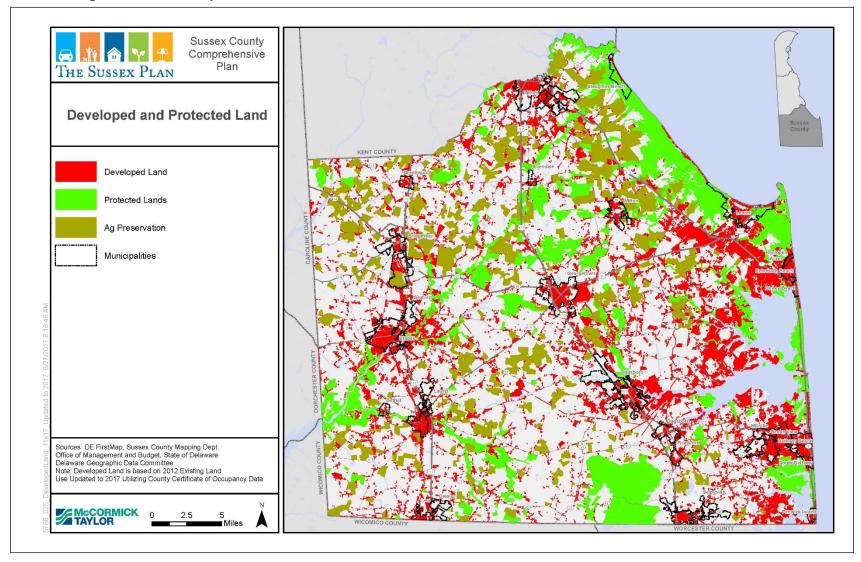




Figure 4.2-2 Developed and Protected Land



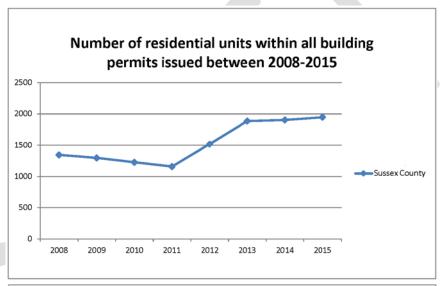


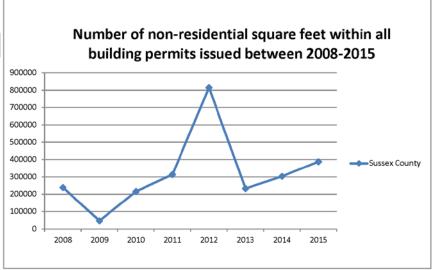
4.3 DEVELOPMENT TRENDS

The Sussex County Planning and Zoning Department reviews new development proposals in areas outside of incorporated towns and cities. The County also issues building permits for all construction activity whether in a municipality or the unincorporated areas of the County.

Between 2008 and 2015, over 10,000 building permits were issued for over 12,000 residential units and 2.4 million nonresidential square footage of development in the unincorporated areas. The figure below depicts how both residential units and nonresidential square footage increased in this time period.

Figure 4.3-1 Trends in Building Permits in Sussex County Unincorporated Areas between 2008 and 2015







The towns and cities also saw a large number of building permits between 2008 and 2015. In this time period, over 3,500 were issued for almost 4,200 residential units and 3 million nonresidential square feet. Twenty-five percent of residential units and 55 percent of non-residential development approved through building permits has occurred within the towns and cities.

Figure 4.3-2 shows the location of the building permits throughout all of Sussex County that have been issued since 2008. The majority of the new home construction continues to occur in the areas closest to the inland bays and the coastal communities. In fact, over 70 percent of building permit activity occurred east of Route 30 between 2008 and 2015.

The coastal and inland bay areas are Sussex County's busiest regions in terms of tourism, new construction and seasonal traffic. Traffic has increased dramatically everywhere in the coastal and inland bays areas. Sussex County's central and western sectors are less developed and more rural but have seen proposals for many developments involving thousands of new housing units.

The strong growth experienced in the County over the past decade is anticipated to continue in the future. Chapter 2, Population and Demographics, includes information about population projections completed by the Delaware Population Consortium and other sources. The Delaware Population Consortium projects that at a minimum, the County is expected to have an additional 46,515 permanent residents living in it by 2045, and more than 23,960 additional seasonal residents. At an average of 2.52 persons per dwelling unit for the permanent population, and 3.3 persons per dwelling unit for the seasonal population, this could equate to approximately 18,458 new dwelling units for permanent residents and 2,200 new dwelling units for seasonal residents.

According to the County Planning and Zoning Department, the average density of new development has been approximately 1.9 dwelling units per acre in rural areas, and 2.5 dwelling units per acre in growth areas. As a result, land acreage is being consumed rapidly, particularly in rural areas since the average density is lower in these areas. Although more building permits are being issued in growth areas (approximately 55 percent of permits) than in rural areas (approximately 45 percent of permits), more land is being consumed in rural areas than in growth areas. If similar development trends continue into the future, the County may see approximately 10,000 additional acres of land developed, with almost 50 percent of it in rural areas (note that this does not assume for any redevelopment).

Approximately 95,000 acres of Sussex County are currently developed, and 227,000 acres protected (see Figure 4.2-2 above). This leaves approximately 256,000 acres that are either undeveloped or in farmland. While the County has an abundance of undeveloped land to meet the acreage needs of anticipated future development, the County through this land use plan would like to encourage that more of the future development occurs in the growth areas in order to help preserve the character of the rural areas. The 2018 Future Land Use Plan outlined in the below sections, was designed to support the vision of this chapter: *To provide for balanced and well-planned future growth and development that supports the County's economic development goals*

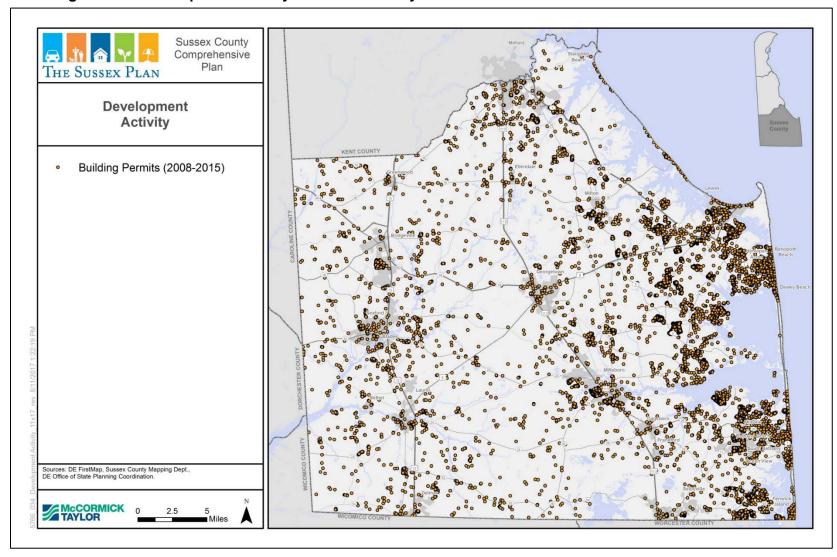


while preserving the rural character of the County and its natural resources. Section 4.7 outlines goals and objectives for the Future Land Use Plan and strategies to implement them.





Figure 4.3-2 Development Activity in Sussex County





4.4 FUTURE LAND USE PLAN

The Future Land Use Plan is the most influential part of this Comprehensive Plan. The County's zoning regulations are intended to carry out the Future Land Use Plan. The Future Land Use Plan also designates which parts of the County are to be considered growth areas. Being labeled a growth area has implications in County zoning. The location of growth areas designated by Sussex County also influences Delaware state policy on: a) where the State hopes to apply certain growth management strategies; and b) how the state allocates its infrastructure spending.

Sussex County's Future Land Use Plan is based on the following:

- Direct development to areas that have existing infrastructure or where it can be secured cost-effectively.
- Conserve the County's agricultural economy by promoting farming and preserving agricultural land values and agribusiness.
- Protect critical natural resources, such as the inland bays and others, by guarding against over-development and permanently preserving selected lands.
- Encourage tourism and other responsible commercial and industrial job providers to locate and invest in the County.
- Expand affordable housing opportunities, particularly in areas near job centers and Delaware State Housing Authority (DSHA) Areas of Opportunity (more information on DSHA Areas of Opportunity is provided in Chapter 8, Housing).
- Ensure that new developments incorporate best practices in subdivision design.
- Make Sussex County's growth and conservation policies clear to relevant Delaware State agencies, neighboring counties and Sussex County's incorporated municipalities.

Sussex County will use this new Future Land Use Plan to update the County's zoning and subdivision codes and help plan for future public infrastructure.

4.4.1 The Future Land Use Plan and Zoning

This Future Land Use Plan revises and expands the existing planning areas. These planning areas provide the logic and rationale for the County's zoning, which is one of the primary purposes of a comprehensive plan. However, it is important to clarify that these land use classifications are not zoning districts, and they often include multiple zoning districts within them. Also, it is important to recognize that other factors come into play when determining which zoning districts are appropriate for each land use classification. The Future Land Use Plan chapter of this Comprehensive Plan describes the County's policies on land development and land conservation. This Plan notes that multiple zoning districts can be appropriate in a given planning area, depending on a variety of circumstances that may be relevant to a particular parcel of land in that planning area. The zoning ordinance contains the detailed regulations for implementing these



policies. The Sussex County Zoning Comprehensive Zoning Map delineates Sussex County's zoning district boundaries.

4.4.2 The Structure of the Future Land Use Plan

The Future Land Use Plan divides Sussex County into two types of planning areas: Growth Areas and Rural Areas. The Growth Areas and the Rural Areas each include sub-categories as outlined below:

Growth Areas:

Municipalities

Town Centers

Developing Areas

Coastal Areas

Existing Development Areas

Commercial Areas

Industrial Areas

Rural Areas:

Low Density Area

Protected Lands (including Agricultural Preservation Districts)

The following descriptions explain each of these planning areas.

4.4.2.1 Growth Areas

This Plan seeks to encourage the County's most concentrated forms of new development to Growth Areas, including most higher density residential development and most commercial development. While Coastal Areas are considered Growth Areas, the County encourages only appropriate forms of concentrated new development in these areas, especially when environmental features are in play.

The County used the following guidelines to help determine where Growth Areas should be located:

- Proximity to an incorporated municipality or a municipal annexation area.
- Presence of existing public sewer and public water service nearby.
- Plans by the County to provide public sewage service within five years.
- Location on or near a major road or intersection.
- Character and intensity of surrounding development, including proposed development.
- Location relative to major preserved lands.
- Location of water bodies.



- Location of agricultural and other protected easements.
- The area's environmental character.
- How the area ranks according to the "Delaware Strategies for State Policies and Spending" document (Level 1, Level 2, Level 3, or Level 4).

In particular cases, the County is signaling that selected new growth areas may be needed to accommodate future development in places the State does not currently view as growth centers according to its "Delaware Strategies for State Policies and Spending" document. The purpose of the "Delaware Strategies for State Policies and Spending" document, last updated by the State in 2015, is to help coordinate local land use decision making with State decisions made about funding infrastructure, such as the schools and roads needed to support appropriate development. By updating this document every five years, the State strives to ensure that:

- State spending promotes quality, efficiency and compact growth.
- State policies foster orderly growth and resource protection, not degradation.

The State's Strategies for State Policies and Spending map classifies land areas as being part of Investment Level 1, Investment Level 2, Investment Level 3, Investment Level 4, or Out of Play for various legal reasons such as conservation easements. The four investment levels clarify the State's policies and priorities for the expenditure of State funds on infrastructure. The following synopsis descriptions are excerpted from the 2015 "Delaware Strategies for State Policies and Spending" document. A map of the 2015 State Strategies for Policies and Spending follows.

Investment Level 1

It is the State's intent to use its spending and management tools to maintain and enhance community character, to promote well-designed and efficient new growth, and to facilitate redevelopment in Investment Level 1 areas.

Investment Level 2

It is the State's intent to use its spending and management tools to promote well-designed development in these areas. Such development provides for a variety of housing types, user-friendly transportation systems, and provides essential open spaces and recreational facilities, other public facilities, and services to promote a sense of community.

Investment Level 3

The lands in Investment Level 3 areas are those in the long-term growth plans of counties or municipalities where development is not necessary to accommodate expected population growth during the next five years or longer. Development in these areas may be least appropriate for new growth and development in the near term. Investment Level 3 areas also include lands adjacent to or intermingled with fast-growing areas within counties or municipalities that are otherwise categorized as Investment Levels 1 or 2. Environmentally sensitive features, agricultural-



preservation issues, or other infrastructure issues most often impact these lands. In these instances, development and growth may be appropriate in the near term, but the resources on the site and in the surrounding area should be carefully considered and accommodated by state agencies and local governments with land-use authority.

Due to the limits of finite resources, state infrastructure spending on "hard" or "grey" infrastructure such as roads, sewer, water, and public facilities will generally be directed to Investment Level 1 and 2 Areas. The State will consider investing in Level 3 Areas once the Investment Levels 1 and 2 are substantially built out, or when the infrastructure or facilities are logical extensions of existing systems and deemed appropriate to serve a particular area.

In Sussex County's case, much of the Coastal Area is designated as Level 3. This designation acknowledges that these areas are part of the County's future growth zone. However, this designation also suggests that special scrutiny should be applied to spending decisions and development proposals within these areas to ensure these activities are consistent with State and local development and preservation policies.

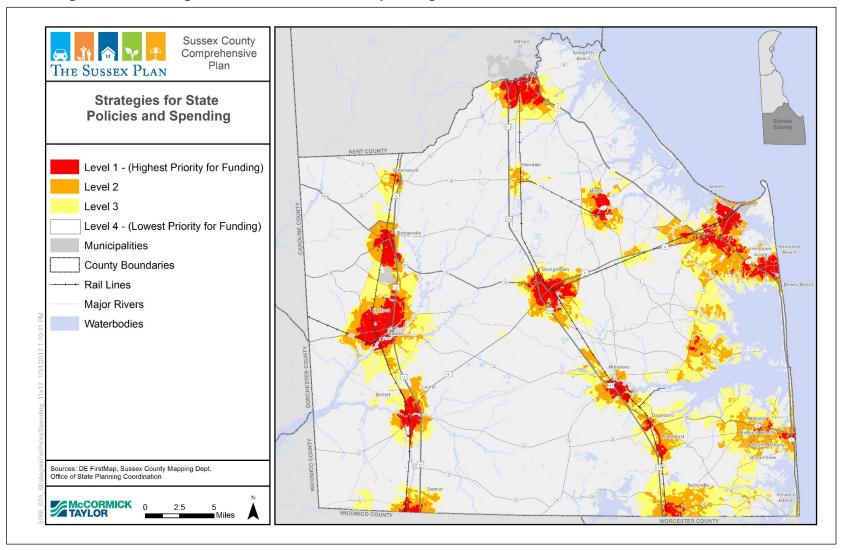
Investment Level 4

It is the State's intent to discourage additional urban and suburban development in Investment Level 4 areas unrelated to agriculture and to the area's needs. It will do so through consistent policy decisions and by limiting infrastructure investment, while recognizing that state infrastructure investments may be appropriate where state and local governments agree that such actions are necessary to address unforeseen circumstances involving public health, safety, or welfare.

In Sussex County's case, there are areas where county growth areas were expanded for this 2018 Comprehensive Plan. In some cases, they are in State Investment Level 4 areas. Similar to growth areas in Investment Level 3 areas, special scrutiny should be applied to spending decisions and development proposals within these areas to ensure these activities are consistent with State and local development and preservation policies.



Figure 4.4-1 Strategies for State Policies and Spending





Seven Types of Growth Areas

The seven types of Growth Areas designated in this Comprehensive Plan are described below:

1. Municipalities

Sussex County strongly favors directing development towards the municipalities that desire it. With exceptions, these are some of the County's most densely developed areas and the areas most fully served by public sewer and public water facilities. The specific permitted uses and densities governing new construction within an incorporated municipality will continue to be governed by that municipality's zoning ordinance, its public water and sewer capacities, and its comprehensive planning policies.

2. Town Center

Significant growth is proposed to be concentrated around municipalities in unincorporated areas just beyond municipal borders. Many of these locations are part of areas that municipalities have formally designated as future annexation areas in their local comprehensive plans, where the municipality would be receptive to annexation requests in the future. Some municipalities have policies that they avoid extending public water and sewage systems beyond their borders, while other municipalities do allow these extensions.

The following guidelines should apply to future growth in the Town Centers:

- Permitted Uses A range of housing types are appropriate in Town Centers, including single-family homes, townhouses, and multi-family units. Commercial uses should serve the daily needs of residents, workers, and visitors. Retail and office uses compatible with adjacent areas are appropriate. Institutional and commercial uses may be appropriate depending on surrounding uses. Some smaller scale, low-impact industrial operations may be appropriate, but larger industrial uses are proposed to be directed to General Industrial areas. Appropriate mixed-use development should also be allowed.
- Densities Medium to high density residential development is encouraged. This should range from 4 to 12 homes per acre. In some areas low density (2 units per acre) could be appropriate depending on surrounding uses. A mix of housing types such as single family, duplex, townhouses, and apartments should be considered in this district. A clustering option permitting smaller lots and additional flexibility in dimensional standards should continue to be provided on tracts of a certain minimum size, provided significant permanent common open space is preserved and the development is connected to central water and sewer service. Specific regulations governing cluster developments are designated by zoning district.



• Infrastructure – Central water and sewer facilities are strongly encouraged. If central utilities are not possible, densities should be limited to two units per acre.

3. Developing Area

The Developing Areas are newer, emerging growth areas that demonstrate the characteristics of developmental pressures. Most of the proposed Developing Areas are adjacent to municipalities, within or adjacent to potential future annexation areas of a municipality, or adjacent to Town Centers.

The following guidelines should apply to future growth in the Developing Areas:

- Permitted Uses A range of housing types are appropriate in Developing Areas, including single family homes, townhouses, and multi-family units. In selected areas and at appropriate intersections, commercial uses should be allowed. A variety of office uses would be appropriate in many areas. Portions of the Developing Areas with good road access and few nearby homes should allow for business and industrial parks. Appropriate mixed-use development should also be allowed. In doing so, careful mixtures of homes with light commercial and institutional uses can be appropriate to provide for convenient services and to allow people to work close to home.
- Densities Low, medium and high density residential development is appropriate in this classification; however, medium and higher density is not appropriate in all locations. This should range from 2 to 12 homes per acre. Medium and higher density (4 units per acre and above) can be considered in areas, including, but not limited to, where there is central water and sewer, near sufficient commercial uses, with a similar surrounding density, similar to the surrounding uses, adequate LOS or no negative impact to the LOS, and along a main road or at/or near a major intersection. A clustering option permitting smaller lots and additional flexibility in dimensional standards is encouraged on tracts of a certain minimum size, provided significant permanent common open space is preserved and the development is connected to central water and sewer service.

Specific regulations governing cluster developments are designated by zoning district. There currently is an option where density can be increased with optional density bonuses for certain zoning districts. Those optional bonuses may involve payment of fees that fund permanent land preservation elsewhere in the County, or other options. Master planning should be encouraged especially for large-scale developments on large parcels or groups of parcels, higher density and mixed-use developments to provide flexibility in site design. If central sewer and central water are not available 2 units per acre is appropriate. RPC's are encouraged to allow for a mix of housing types and to preserve open space.



• Infrastructure – Central water and sewer facilities are strongly encouraged. If central utilities are not possible, permitted densities should be limited to two units per acre.

4. Coastal Area

Sussex County has designated the areas around Rehoboth Bay, Indian River Bay, and Little Assawoman Bay (the inland bays) as Coastal Areas. Coastal Areas generally encompass areas on the south-eastern side of Sussex County within what was previously referred to as the Environmentally Sensitive Developing Areas of prior Comprehensive Plans. The updated name more accurately reflects the function of this land use classification. While the Coastal Area is a Growth Area, additional considerations should be taken into account in this Area that may not apply in other Growth Areas.

The Coastal Area designation is intended to recognize two characteristics. First, this region is among the most desirable locations in Sussex County for new housing, as is reflected in new construction data and real estate prices. Second, this region contains ecologically important and sensitive characteristics as well as other coastal lands which help to absorb floodwaters and provide extensive habitat for native flora and fauna. This area also has significant impact upon water quality within the adjacent bays and inlets as well as upon natural the region's various habitats. And, these factors are themselves part of the reason that this Area is so desirable-making the protection of them important to both the environment and the economy.

The County has significant initiatives to extend public sewer service to replace inadequate on-site systems. This is described more in within Chapter 8, Utilities. Careful control of stormwater runoff is also an important concern in keeping sediment and other pollutants out of the Inland Bays.

The challenge in this region is to safeguard genuine natural areas and mitigate roadway congestion without stifling the tourism and real estate markets which: a) provide many jobs; b) create business for local entrepreneurs; and c) help keep local tax rates low.

The following guidelines should apply to future growth in Coastal Areas:

• Permitted Uses – Coastal Areas are areas that can accommodate development provided special environmental concerns are addressed. A range of housing types should be permitted in Coastal Areas, including single-family homes, townhouses, and multi-family units. Retail and office uses are appropriate but larger shopping centers and office parks should be confined to selected locations with access along arterial roads. Appropriate mixed-use development should also be allowed. In doing so, careful mixtures of homes with light commercial, office and institutional uses can be appropriate to provide for convenient services and to allow people to work close to home. Major new industrial uses are not proposed in these areas.



• Densities – Low, medium and high density residential development would be appropriate. This should range from 2 to 12 homes per acre. Medium and higher density are not appropriate for all areas within the Coastal Areas. Medium and higher density (4 units per acre and above) should be located in areas including but not limited to where there is central water and central sewer, near commercial uses, within Level 1 or Level 2 Strategy for State Spending, with a similar surrounding density, similar to the surrounding uses, and along a main road or at/or near a major intersection. The preservation of natural resources or open space is strongly encouraged in this land use classification. The County should revisit environmental protection in the Coastal Areas.

Specific regulations governing cluster developments are designated by zoning district. There currently is an option where density can be increased with optional density bonuses for certain zoning districts. Those optional bonuses may involve payment of fees that fund permanent land preservation elsewhere in the County, or other options. RPC's are encouraged to allow for a mix of housing types and to preserve open space and natural areas/resources. Cluster development that allows for smaller lots and flexibility in dimensional standards is encouraged if the developer uses a cluster option that results in permanent preservation of a substantial percentage of the tract and/or natural areas/resources. Master planning should be encouraged especially for large-scale developments on large parcels or groups of parcels, higher density and mixed-use developments to provide flexibility in site design.

All applicants for developments of a minimum size (as specified in zoning) should continue to be required to provide information that analyzes the development's potential environmental impacts, including effects on stormwater runoff, nitrogen and phosphorous loading, wetlands, woodlands, wastewater treatment, water systems, and other matters that affect the ecological sensitivity of the inland bays.

• Infrastructure – Central water and sewer facilities are strongly encouraged. If central utilities are not possible, permitted densities should be limited to two units per acre.

5. Existing Development Area

Existing Development Areas consists of primarily of existing residential development under the current General Residential and Medium Density Residential zoning districts, as well as some commercial uses. These areas are scattered throughout the County. These areas are surrounded by Low Density Areas, and this particular classification is simply being used to identify these existing scattered zoning areas that have no direct relation to their surrounding zoning and/or the Future Land Use Map.

The following guidelines apply to future growth in Existing Development Areas:



- Permitted Uses The full range of housing types allowed in the existing underlying zoning districts are appropriate in these residential areas, including single-family homes, townhouses, and multi-family units. Non-residential development consists of uses found in the neighborhood business districts and commercial districts. There is no intention to expand this land use classification.
- Densities The current densities are whatever is permitted in the existing underlying zoning district of the property.
- Infrastructure Central water and sewer facilities are strongly encouraged. If central utilities are not possible, densities should be limited to two units per acre.

6. Commercial Area

Commercial Areas include concentrations of retail and service uses that are mainly located along highways. As opposed to small, traditional downtown areas that are often historic and pedestrian-friendly, Commercial Areas include commercial corridors, shopping centers, and other large commercial vicinities geared towards vehicular traffic. In addition to primary shopping destinations, this area would also be the appropriate place to locate hotels, motels, car washes, auto dealerships, lumberyards, and other larger scale commercial uses not primarily targeted to the residents of immediately adjacent residential areas. These more intense uses should be located along main roads or near major intersections. Institutional and commercial uses may be appropriate depending on surrounding uses. Mixed-use buildings may also be appropriate for these areas.

7. Industrial Area

Industrial Areas are lands devoted to concentrations of larger industrial uses including heavier industry, light industry, warehousing, and flex space. Appropriate development in these areas could take the form of conventional industrial parks or planned business parks with a unified design that incorporate a combination of light industry and other business uses. Large, more intensive stand-alone industrial uses should also be directed to these areas.

4.4.3 Rural Areas

As explained above, the various types of Growth Areas identified in this Plan are designed to accommodate concentrated levels of development. In contrast, Sussex County envisions the remainder of the County as a predominantly rural landscape where farming co-exists with appropriate residential uses and permanently preserved property.

Two Types of Rural Areas

1. Low Density Area



As of 2018, all lands designated in this Plan as Low Density Areas are currently zoned AR-1. Under that zoning designation, single family detached homes are permitted at two homes per acre on lots containing a minimum of half acre if the tract connects to central sewers. Where onsite septic systems are used, single-family detached homes are permitted on minimum 3/4-acre lots. AR-1 zoning regulations also permit an average of two homes per acre where a cluster-style site plan is used, and a portion of the tract is preserved in permanent open space. Using these zoning regulations and additional incentives discussed in the next section of this Future Land Use chapter, Sussex County hopes to retain the rural environment of Low Density Areas and set aside significant open space.

In Sussex County, many farmland owners located in the Low Density Areas have built up significant equity in their land – in numerous cases through multiple generations. This equity is an asset that can serve as collateral to secure operating loans. It is also equity that can be realized through land sales if and or when these landowners no longer desire to continue farming. For this reason, the Sussex County Council supports State and local land use policies that will preserve the value of farmland. The Sussex County approach emphasizes the following policies and actions to help sustain agriculture, maintain the rural landscape and sustain reasonable development rights:

- The County strongly supports voluntary farmland preservation and has worked jointly with the State to facilitate the acquisition of development rights to agricultural land.
- The County requires that a certain portion of a residential subdivision must be permanently preserved in common open space.
- The County provides density bonuses, under certain conditions, to developers who agree to pay into a fund that Sussex County uses to acquire open space.
- The County requires developers to plant landscaped buffers to physically separate new development from the surrounding countryside.
- As described later in this chapter, the County is also considering establishing Agribusiness
 Areas which will enable certain limited, yet important agriculture industries to develop in
 support of Sussex County's large agricultural economy without unnecessary delay.

The following guidelines should apply to future growth in Low Density Areas.

Permitted Uses – The primary uses envisioned in Low Density Areas are agricultural
activities and homes. Business development should be largely confined to businesses
addressing the needs of these two uses. Industrial and agribusiness uses that support or
depend on agriculture should be permitted. The focus of retail and office uses in Low
Density Areas should be providing convenience goods and services to nearby residents.



Commercial uses in these residential areas should be limited in their location, size and hours of operation. More intense commercial uses should be avoided in these areas. Institutional and commercial uses may be appropriate depending on surrounding uses.

- Densities Base densities in Low Density Areas should be unchanged from the current zoning provisions. The minimum lot size should be ¾ acre for lots served by on-site septic systems and half acre for lots with central sewers. The cluster option permitted in Low Density Areas should continue to permit overall site densities of up to two units per acre, provided significant open space is set aside and the tract connects to public sewers.
- Infrastructure Development where lots are no smaller than ¾ acre can be accommodated in this planning area without central sewers. Other development should require central sewer service.

2. Protected Lands

Protected Lands are considered preserved. Some of these tracts are considered "Out of Play" and cannot be further developed because they are:

- Federally-owned, State-owned, or other land preserves;¹
- Under conservation easements (such as easements on mostly forested land or easements by private conservancies); or
- Under agricultural preservation easements that were purchased by the State and/or County.

Other properties within the Protected Lands category are considered "Temporarily Out of Play". The landowners voluntarily agree to enter into the ten-year Agricultural Preservation Districts program and can leave or renew their participation when their agreements expire. Therefore, these areas can be considered temporarily but not permanently preserved. More information on Agricultural Preservation Districts is included in Chapter 6, Conservation. For the purposes of our analysis, these areas are not considered as developable land, as the County's 2045 vision should direct development toward those areas most suitable for future development, such as Developing Areas, Town Centers, Coastal Areas, and Municipalities.

4.5 THE FUTURE LAND USE MAP

¹ Chapter 6, Conservation and Chapter 7, Recreation and Open Space include maps depicting land protected in parks, wildlife refuges, forestland, and other open space.



The Future Land Use map that accompanies this chapter shows the locations of the Growth Areas and the Rural Areas described above. The starting point for this map was the Future Land Use map included in the 2008 Sussex County Comprehensive Plan.

Development of the Future Land Use Map

The Future Land Use Map was developed with guidance from Sussex County Planning and Zoning Commission, the public, and Sussex County Council.

The map was developed through a series of land use workshops with the County Planning and Zoning Commission and County Council where the data and maps were meticulously reviewed. The 2008 Future Land Use Classifications were spatially overlaid on other digital layers including parcel data, aerial photography, current zoning, sewer and water areas, planned road improvements, municipal annexation areas, existing land use, DSHA Areas of Opportunity, electric and fiber optic utility data, and building permit data.

Based on the population projections of future growth, only a portion of the available land is needed to accommodate the growth. The Future Land Use Map was developed to help direct the location and type of new development.

A land use suitability analysis that provided insight regarding future development opportunities served as a guide for development of the Future Land Use map. The analysis involved the combination of scientific geographic data and stakeholder values to create layers of opportunity and constraints, which can then be utilized in the future land use planning process. The intent of the analysis was to identify land areas possessing high future development potential.

After careful consideration of stakeholder desires, past comprehensive plans and the current trends within the county, an opportunities data layer was created to identify those areas that may attract future development of various types at a parcel level. The opportunity criteria were scored on a scale of 1-5 based on their relative importance/attractiveness for future development and then weighted based on their perceived influence within the region. A composite data layer was then created by combining all opportunities data via a series of mathematical calculations creating the weighted opportunities score. Opportunities data considered were:

- Municipal Annexation Areas
- Areas where water and waste water CPCNs overlap
- Areas where only water or waste water CPCNs exist
- US census urbanized areas
- Transportation corridors buffer
 - o .5 mile
 - o 1 mile



The constraints layer is a composite consisting of those features either so valuable to stakeholders or so inappropriate for future development that they must be excluded from consideration. The constraints layer is used as an exclusionary layer, meaning areas of land that exhibit any of these traits are erased from final future land use consideration. The constraints layer is not dictating that development cannot occur within any one of these areas or that it hasn't in the past; rather, this layer is identifying areas where future development is not appropriate. Constraints data considered were:

- National Wetland Inventory Costal Wetlands
- Agricultural Preservation Districts
- Agricultural Preservation Easements
- Other Protected Lands Easements, State Parks, Local Parks, Federally Protected Lands.
- Waterbodies
- The 100-year flood plain
- Transportation corridor buffer
 - o .25 mile

The weighted opportunities score, with constraints removed, was then classified into five ranks for ease of use and reviewed to help guide future land use assignments within the county. It was determined that the weighted opportunities score classified into five ranks corresponded well with the future land use designations where a score of five (5) was well correlated to areas exhibiting higher density land uses potential, and a score of one (1) or less exhibited lower density or commercial potentials.

Once the analysis was completed, the composted scores were translated into a future land use map, where:

Rank:	Land Use:
1	Commercial
2	Existing Development Area
3	Coastal Area
4	Developing Area
5	Town Center

Following the analysis, modifications were made to growth and rural area future land use classification boundaries across the County. The 2045 version of the map (Figure 4.5-1) includes changes in certain areas from the Future Land Use Map in the 2008 Plan to reflect the following:

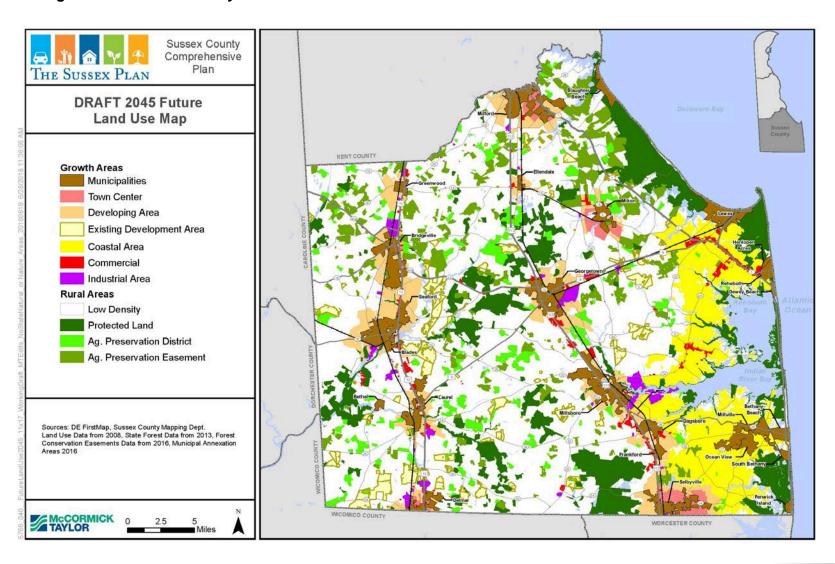


- Changes to several municipal boundaries to reflect lands added through annexation by certain incorporated municipalities since 2008.
- Some lands added to Town Center areas to align with the municipal future annexation areas, as shown in comprehensive plans adopted by these municipalities and certified by the State.
- Eliminated the Environmentally Sensitive Development Area Land Use classification.
- Created the Coastal Area Land Use classification to address the development pressures and unique environmental characteristics of the area.
- Some selected new Developing Areas were added that are intended to provide locations
 where density might increase from the current zoning. These are primarily on the eastern
 side of the County and were added to accommodate the increase in development being
 experienced in that part of the County; around Milford to provide for development
 associated with Bayhealth's new campus; and along the U.S. 13 corridor to encourage
 investment in the corridor communities.
- Eliminated the Mixed Residential Areas Land Use classification.
- Created the Existing Development Area Land Use classification to better match scattered underlying zoning boundaries surrounded by Low Density areas.
- Expansion of existing Industrial Areas at certain locations to encourage more industrial development and the creation of new Industrial Areas at areas with industrial development potential.
- Changes to various land use classifications in certain areas to be consistent with zoning map changes approved by Sussex County Council since the previous plan was completed.

These refinements represent the Sussex County's vision regarding the future of land development and land preservation priorities for the County in the year 2045.



Figure 4.5-1 Sussex County 2045 Future Land Use





Since the comprehensive plan is a guide for the future use of land, the County's official zoning map must be consistent with the uses and intensities of uses provided for in the Future Land Use Plan. Table 4.5-2 is provided below to provide a tool for assisting with determining which zoning districts are applicable to each future land use category.

According to state law, the County must amend its official zoning map to be consistent with the Future Land Use Map within 18 months of the date of adoption of the Comprehensive Plan. Additionally, future rezonings should also generally be consistent with the Future Land Use Plan.

Table 4.5-2 Zoning Districts Applicable to Future Land Use Categories		
FUTURE LAND USE PLAN CATEGORY	APPLICABLE ZONING DISTRICT	
GROWTH AREAS		
Municipalities	N/A - town zoning applies	
	Agricultural Residential District (AR-1)	
	Medium Density Residential District (MR)	
	General Residential District (GR)	
	High Density Residential District (HR-1 & HR-2)	
	Business Community District (B-2)	
	Business Research (B-3)	
T 0	Medium Commercial District (C-2)	
Town Center	Heavy Commercial District (C-3)	
	Planned Commercial District (C-4)	
	Service/Limited Manufacturing District (C-5) Institutional District (I-1)	
	Marine District (M)	
	Limited Industrial District (LI-1)	
	Light Industrial District (LI-2)	
	New Zoning Districts	
	Agricultural Residential District (AR-1)	
	Medium Density Residential District (MR)	
	General Residential District (GR)	
	High Density Residential District (HR-1 & HR-2)	
	Business Community District (B-2)	
	Business Research (B-3)	
Developing Area		
Bovoroping / ii ou		
	,	
Developing Area	General Residential District (GF High Density Residential District (HR-1 & HR-2 Business Community District (B-2	



Table 4.5-2 Zoning Districts Applicable to Future Land Use Categories		
FUTURE LAND USE PLAN CATEGORY	APPLICABLE ZONING DISTRICT	
Coastal Area	Agricultural Residential District (AR-1) Medium Density Residential District (MR) General Residential District (GR) High Density Residential District (HR-1 & HR-2) Business Community District (B-2) Business Research (B-3) Medium Commercial District (C-2) Heavy Commercial District (C-3) Planned Commercial District (C-4) Service/Limited Manufacturing District (C-5) Institutional District (I-1) Marine District (M) New Zoning Districts	
Existing Development Area	Medium Density Residential District (MR) General Residential District (GR)	
Commercial Area	Agricultural Residential District (AR-1) Business Community District (B-2) Business Research (B-3) Medium Commercial District (C-2) Heavy Commercial District (C-3) Planned Commercial District (C-4) Service/Limited Manufacturing District (I-1) Marine District (M) New Zoning Districts	
Industrial Area	Agricultural Residential District (AR-1) Limited Industrial District (LI-1) Light Industrial District (LI-2) Heavy Industrial District (HI-1) Service/Limited Manufacturing District (C-5) New Zoning Districts	
Low Density	Agricultural Residential District (AR-1) Business Community District (B-2) Medium Commercial District (C-2) Marine District (M) Institutional District (I-1) New Zoning Districts	
Protected Lands	N/A - permanently protected Federally-owned, State-owned, or other land preserves, conservation easements, and agricultural preservation easements	
Agricultural Preservation Districts	Agricultural Preservation Districts through the State's Farmland Preservation Program in Agricultural Residential District (AR-1)	

Notes: Agricultural Residential District (AR-2), Neighborhood Business District (B-1), General Commercial District (C-1), Commercial Residential District (CR-1), Vacation Retirement Residential Park District (VRP), and Urban Business District (UB) are closed districts. These zoning may be located within any of the land use designations.



Each land use proposal the County receives should be reviewed on its own merit to determine if the proposal is consistent with the Future Land Use Map and does not have a negative impact on the surrounding area or the County in general.

As described above, the Future Land Use Plan is not the County's official zoning map. The Future Land Use Map and all other aspects of this Comprehensive Plan will be considered primarily through ordinances and other programs that fulfill policy objectives.

4.6 IMPLEMENTATION OF THE FUTURE LAND USE PLAN THROUGH STRATEGIES

4.6.1 Well-Planned Growth and Conservation Strategy

The Future Land Use Plan along with the County's Zoning and Subdivision and Land Development Regulations provides a framework for balanced land use and critical investment in Sussex County. Indeed, the County already provides an attractive environment for land use development; therefore, the Future Land Use Plan should establish sensible growth principles and strategies. Many of the goals, objectives, and strategies for this Chapter outlined in Section 4.7 are focused on ways to improve decisions related to future land use.

To effectuate such improved decisions, the Future Land Use Plan has established Growth Areas where the County has signaled future growth is expected. In addition, while development is inevitable, a priority has been made to better preserve the rural character and natural resources of the County. To achieve these goals, the County should consider larger buffers in sensitive environmental areas, increased building height in select areas, density bonuses for open space funding, and stream-lining the process for voluntary downzoning to AR-1.

The majority of development in the County is new development, but the County recognizes the importance of redevelopment to breathe new life into an area with pre-existing uses. Redevelopment also reduces development pressure on undeveloped land. The County would like to encourage more redevelopment and infill development by determining if incentives can be established for developers that propose redevelopment, particularly redevelopment of brownfield areas.

4.6.2 Supporting Agricultural Land Use and Agricultural Land Preservation

The County strongly supports efforts by the State, conservation organizations, and local landowners to preserve farmland through voluntary purchases of development rights. This is described in more detail in Chapter 6 of this Comprehensive Plan. The County views the voluntary sale of farmland development rights to the Delaware Agricultural Lands Preservation Foundation as an important tool for preserving the County's rural character and supporting a viable agricultural economy. The description of Low Density planning areas included earlier in this chapter describes additional strategies Sussex County now uses to help preserve the County's agricultural heritage.



The County wants to take measures to reduce challenges placed on farmers and other uses related to farming caused by new development. One way would be the establishment of voluntary agribusiness areas or district centered around existing infrastructure within the AR-1 zones in the Low Density Areas of the Future Land Use Map. In these areas, certain "agribusiness" uses would be permitted within the AR-1 zone.

This will enable certain limited, yet important agriculture industries to develop in support of Sussex County's large agricultural economy. Agribusiness Areas should generally be located wherever suitable supporting infrastructure already exists or will be available in the ten-year time period covered by this Plan. In addition, consideration should be given to current and future nearby land uses like Agricultural Preservation Districts or lands in Agricultural Conservation Easements which will act as an additional agricultural buffer between a permitted agribusiness use and other types of permitted uses in the Low Density Area and AR-1 District. Consideration should also be given to the minimum parcel size for any permitted agribusiness use, as well as other factors such as buffering.

4.6.3 Promoting Appropriate Commercial and Industrial Development

The Future Land Use Plan designates areas for future commercial and industrial development. It is important that commercial and industrial development occurs in a scale, intensity, and distance appropriate to adjacent residential neighborhoods. The County is considering ways to achieve this objective including the recent adoption of a commercial planned development ordinance that would require a review and approval of a site plan at the same time as a zoning change is proposed.

The County recently adopted new zoning code for commercial districts to include sub-districts. In doing so, this will help better define types of commercial uses within the districts. The County also increased the ability of mixed uses within districts that would help promote development designed to support both residential and commercial uses.

The County recognizes that the availability of public services and infrastructure is necessary in order to spur more industrial development. As discussed in the Economic Development and Utilities Chapters of this Comprehensive Plan, the County supports efforts by the utility providers in the County to extend their services areas. The County would like to identify areas that are served with adequate electricity, natural gas, and fiber optic infrastructure for rezoning to LI-1, LI-2, and HI-1 uses to increase the amount of available land for new industries locating in the County.

4.7 FUTURE LAND USE GOALS, OBJECTIVES, AND STRATEGIES

Implementation of the below goals, objectives, and strategies for Sussex County's Future Land Use Chapter will be critical to the success of the Future Land Use Plan and the vision for this



chapter. Note that many of these strategies overlap with strategies in other Chapters of the Comprehensive Plan as the chapters of this Comprehensive Plan are all interrelated:

Goal 4.1 Manage the impacts of future growth and development to better preserve the quality of life of the County.

Objective 4.1.1 Promote growth and development in areas where capital facilities and infrastructure are already available and adequate to support the growth, including incorporated municipalities that desire it and their future annexation areas.

Strategy 4.1.1.1 Evaluate the County's density bonus program to determine ways to better encourage the use of the program.

Strategy 4.1.1.2 Prioritize new development in designated Growth Areas to better preserve other areas.

Objective 4.1.2 Discourage incompatible land uses through the enforcement of existing land use controls, or through the development of new controls, where appropriate.

Strategy 4.1.2.1 Consider waiving requirements and fees for down-zoning to AR-1.

Objective 4.1.3 Promote commercial and industrial development in designated commercial, office, and industrial areas in a scale/intensity/distance appropriate to adjacent residential neighborhoods.

Objective 4.1.4 Encourage redevelopment and infill development in existing developed areas.

Strategy 4.1.4.1 Determine if there are ways to encourage developers to redevelop particular brownfield sites.

Goal 4.2 Ensure quality growth and development by planning and developing infrastructure and services in the County to complement State and local planning efforts.

Objective 4.2.1 Engage in planning that considers the efficient location of public services and infrastructure.

Strategy 4.2.1.1 Establish future public sewer service areas that will help preserve open space by promoting orderly growth rather than unplanned sprawl.

Strategy 4.2.1.2 Identify areas that are served with adequate electricity, natural gas, and fiber optic infrastructure for rezoning to LI1 and LI2 uses.

Objective 4.2.2 Facilitate more intergovernmental coordination efforts so that development and infrastructure expansion takes a regional approach rather than a site-specific approach.



Strategy 4.2.2.1 Coordinate with DelDOT on road improvements and other transportation projects.

Strategy 4.2.2.2 Continue coordination with the County's 25 towns and cities, with particular focus on annexation, municipal zoning, future utility service areas, road improvements, large development applications, and historic preservation.

Goal 4.3 Identify and designate future development areas in a manner that protects the County's natural and cultural resources from the adverse impacts of development as outlined in the Conservation and Historic Preservation elements.

Objective 4.3.1 Consider strategies for preserving environmental areas from development and the protection of wetlands and waterways.

Objective 4.3.2 Promote new development that incorporates preserved usable open space and mitigates for the protection or replacement of environmental resources in subdivision design.

Strategy 4.3.2.1 Improve the cluster development ordinance.

Strategy 4.3.2.2 Consider deletion of wetlands from density calculations.

Strategy 4.3.2.3 Strengthen County development regulations to ensure that open space dedicated by developers contains contiguous open space.

Strategy 4.3.2.4 Revisit County Code to determine if modifications are needed to open space requirements to promote less fragmentation of open space.

Goal 4.4 Minimize the adverse impacts of future development on existing development.

Objective 4.4.1 Ensure that new development complements the character of the existing surrounding communities.

Strategy 4.4.1.1 Identify an appropriate range of landscape buffer distances based on location, height, and context.

Strategy 4.4.1.2 Revisit height limits in the County Code for residential and commercial districts to determine if heights are accurate for such districts and uses, as well as determining if the method for measuring height should be revised.

Strategy 4.4.1.3 Review zoning code to determine if modifications are needed to permit new styles of housing such as tiny house construction and agrihood developments to be developed in the code as they appear.



Strategy 4.4.1.5 Encourage master planning for large-scale developments on large parcels or groups of parcels in the Town Center, Coastal Area, Developing Area, and Commercial land use classifications to provide flexibility in design.

Goal 4.5 Recognize the importance of the agricultural land base of the County.

Objective 4.5.1 Develop strategies for the preservation of agriculture or forestry lands.

Strategy 4.5.1.1 Promote and expand land use, zoning and conservation policies and incentives that keep agriculture economically viable in Sussex County.

Strategy 4.5.1.2 Explore incentives that the County could offer landowners (e.g. property tax exemption) to encourage long-term forest management.

Objective 4.5.2 Reduce the challenges placed on farmers by new development.

Strategy 4.5.2.1 Evaluate the concept of establishing voluntary agribusiness areas or district that are centered around existing infrastructure in AR-1 zoning that allow agricultural uses or other compatible uses.

Strategy 4.5.2.2 Ensure that the zoning ordinance accommodates agribusiness, forestry, and similar uses in appropriate locations, including businesses that promote new uses for agricultural products and byproducts.

Objective 4.5.3 Increase the acreage of permanently preserved farm and forestland in the County.

Strategy 4.5.3.1 Encourage more farm owners to enroll in a voluntary State Agricultural Preservation District or similar program.

Strategy 4.5.3.2 Work with the Delaware Department of Agriculture to preserve more Sussex County farms through agricultural preservation easements.

Strategy 4.5.3.3 Coordinate agricultural preservation acquisitions with other current and future adjacent uses.

Strategy 4.5.3.4 Support and promote the Forest Legacy Program and other programs that sustain and protect working forests.

Strategy 4.5.3.5 Consider renewal of the County's contribution to the State Farmland Preservation Program and other federal or state programs.

Strategy 4.5.3.6 Promote farm easement programs by the State, NRCS, and private land conservancies.

Strategy 4.5.3.7 Promote Delaware's Urban and Community Forestry Program to preserve and enhance Delaware's community forests.



Strategy 4.5.3.8 Continue coordination with and technical assistance to public and private entities acquiring open space and farmland easements in low density, rural areas.

Goal 4.6 Recognize the importance of the Inland Bays

Strategy 4.6.1 Support the Center for the Inland Bays and other conservation groups in their efforts to educate more people about the necessity of protecting tidal wetlands and other natural resources.

Strategy 4.6.2 Recognize the Inland Bays, their tributaries and other waterbodies as valuable open space areas of ecological importance.





Chapter 5. CONSERVATION

<u>Conservation Vision</u>: To conserve land and protect natural resources in balance with growth and development throughout Sussex County

5.1 OVERVIEW

Landscapes and environmental resources in Sussex County include wetlands, waterways, beaches, forests, farmland, meadows and other open areas. These areas support a wide variety of plant and wildlife species as well as human activities. While many of these are public sites such as state parks or beaches, the majority of the natural landscapes in the County are privately owned.

These undeveloped areas are a major part of Sussex County's unique physical character, aesthetic appeal, and economic vitality; all contributing to the quality of life of residents and visitors. As the population of Sussex County grows, development may occur in close proximity to natural resources. However, through a combination of land preservation efforts and land use planning practices, the impact of development on natural resources are being minimized. Sussex County and a range of public and private parties are striving to preserve, protect, and manage Sussex County's natural environment. This plan element addresses the conservation measures that Sussex County and others are and should consider undertaking to protect the area's ecology.

5.2 PROTECTED LANDS AND NATURAL RESOURCES

Protected lands in Sussex County include those owned and/or managed by some federal and state agencies, as well as private land conservancies (Figure 5.2-1). In addition, many landowners choose to sell their development rights and establish forestry or agricultural conservation easements. Many also choose to have their land placed in an agricultural preservation district or forestry preservation area where it is preserved for a period of time. Other lands that have restrictions from development include tidal wetlands and flood hazard zones. This section outlines the protected lands and natural resources of Sussex County.

5.2.1 Federal Land

The Prime Hook National Wildlife Refuge is located approximately 10 miles north of Lewes. It contains over 10,000 acres devoted to habitat and protection for waterfowl, migratory birds and other endangered species. The U.S. Fish and Wildlife Service (USFWS) manages this site as part of its national system. These lands help support healthy populations for game and non-game species.

The refuge is managed by a Comprehensive Conservation Plan (CCP) developed by the U.S. Fish and Wildlife Service and finalized in 2013. The County should periodically review the plan with the USFWS representatives and surrounding property owners to evaluate its impact and effect on the area and decide if there are issues that could be addressed on a county level.



5.2.2 State Land

DNREC oversees state parks, forest, wildlife areas, ponds, and other open spaces that comprise over 40,000 acres in Sussex County. The Delaware Department of Agriculture's Forest Service is responsible for Redden State Forest which is north of Georgetown. The Redden State Forest, at over 12,000 acres, is the largest of Delaware's three state forests and the only state forest in Sussex County. More information about these state lands are included in the Recreation and Open Space Element of this Comprehensive Plan.

Much of the state land in Sussex County was acquired through the Delaware Open Space Program. The Open Space Program coordinates the acquisition of various state lands (parks, fish and wildlife management areas, forests, nature preserves, and cultural sites). From July 1, 1990 to June 30, 2016 the Delaware Open Space Program preserved over 37,000 acres of land in Sussex County through 189 projects. Sussex County projects make up 62 percent of all acres preserved in the State of Delaware through the Open Space Program. Additionally, 50 percent of total program funding for the State during that time period was used in Sussex County.

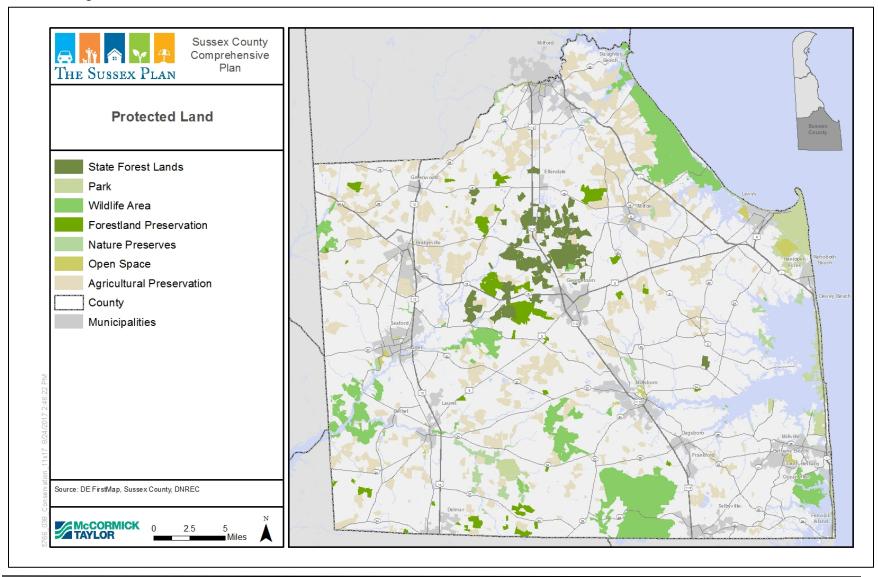
For the past several years, the Delaware Open Space Program has experienced significant budget cuts which will have a major impact on open space preservation efforts in the State moving forward. The County may consider using more of its own funding to reinvigorate efforts and ensure that natural resource land continues to be preserved.

5.2.3 Private Preserved Land

Permanently preserved private land in Sussex County also includes property owned in fee simple by private non-profit conservation entities including but not limited to the Sussex County Land Trust, Delaware Wild Lands, Inc., Ducks Unlimited, and the Nature Conservancy. In addition, the State works with private landowners to acquire farmland and forestland preservation easements, as described below.



Figure 5.2-1 Protected Land





5.2.3.2 Agricultural Land Preservation

As discussed in other Elements of this Comprehensive Plan, agriculture is an important land use and industry in Sussex County. Land in agriculture also provides many important ecological benefits including wildlife habitat and stormwater absorption.

In order to preserve farmland from development, the Delaware Agricultural Lands Preservation Foundation purchases development rights from landowners and imposes a permanent agricultural conservation easement on the land. According to the June 21, 2017 Current Situation Report, the Delaware Agricultural Lands Preservation Foundation had acquired the development rights to 321 farms and a total of over 43,000 acres in Sussex County. Historically, the County has made annual financial contributions toward acquiring these easements. The County is considering renewing its investments in the Agricultural Preservation Program and working with the Delaware Department of Agriculture and the farming community to preserve more Sussex County farms through agricultural preservation easements. As part of these efforts, the County could consider strategic ways to use the funding such as using the program to preserve farmland to create buffers around more intense agricultural uses; or in areas that are near important environmental areas.

The Delaware Agricultural Lands Preservation Foundation also works with farmland owners to enroll farms in agricultural preservation districts (200 acres or more) or expansions (less than 200 acres). These are voluntary agreements where landowners agree to continue to only use their land for agriculture for at least 10 years. There is no payment to the landowner for creating the district; however, there are several benefits to landowners in an agricultural district. The unimproved land in the district is exempt from real estate transfer, county, and school taxes. There are also protections against nuisance lawsuits for land in the district. Farms must first be enrolled in a district or expansion before easements can be sold. In Sussex County, there are 619 approved and 7 pending farms in districts or expansions. These total over 73,000 acres.

The Delaware Department of Agriculture and the Delaware Agricultural Lands Preservation Foundation also administer the Delaware Young Farmers Loan Program. This program helps young farmers buy land while protecting it from future development. It provides no-interest loans for land acquisition in exchange for a permanent agricultural conservation easement on the land.

Additionally, the USDA Natural Resource Conservation Service (NRCS), through the Agricultural Conservation Easement Program (ACEP) provides financial and technical assistance to help conserve agricultural lands and wetlands and their related benefits.

5.2.3.3 Forestland Preservation

The Delaware Department of Agriculture's Forest Service recognizes the importance of preserving forestland, including land in working forests. Working forests are forests that are actively managed to generate revenue from sustainable timber production while still providing the important ecological benefits that woodlands provide. The Delaware Forest Service is responsible for acquiring forestland conservation easements as well as managing a host of programs that



assist local communities and private landowners to re-forest, manage and/or enhance their woodland resources.

The Delaware Forestland Preservation Program also works to preserve forestland as forestland preservation areas (ten acres or more of forestland that is preserved from development for at least 10 years) and through permanent easements. As of June 21, 2017, in Sussex County there are over 1,600 acres designated as forestland preservation areas and 445 acres that are permanently preserved with forestland preservation area easements.

Sussex County is also home to two of Delaware's four Forest Legacy Areas: Redden/Ellendale and Cypress Swamp. Forest Legacy Areas are specially designated concentrations of forest land, within which the State can use certain federal funds to acquire forest conservation easements. The Forest Legacy Program provides funds to states to protect working forestlands that are threatened by development or other land uses, either through outright (fee simple) purchase or conservation easements.

5.2.4 Water Resources

Water resources are critical to life in Sussex County. Water resources are surface waters, including the Atlantic Ocean and the Inland Bays, groundwaters, wetlands, and floodplains. The County's water resources have many uses including agricultural, household, industrial, and recreational activities. They exist as surface and groundwater resources.

5.2.4.1 Surface Waters

Sussex County is well-known for its extensive beaches and shoreline along the ocean and coastal bays. To protect these resources, DNREC administers the State Coastal Zone Program which regulates existing heavy industrial activities as well as manufacturing activities within the State's coastal zone. The coastal zone runs the length of the eastern seaboard of the state. Coastal zone permits are necessary for any new or expanded manufacturing activities that may impact the environment, economy, aesthetics, or neighboring land uses. In addition, an application for a coastal zone status decision is needed if the activity may be considered heavy industry.

Surface water resources in the County also include a vast network ponds, rivers, and streams that crisscross the County. Figure 5.2-2 shows the major waterways and their corresponding watersheds in Sussex County.

Under Section 303(d) of the 1972 Federal Clean Water Act (CWA), states are required to identify all impaired waters and establish total maximum daily loads (TMDL) to restore their beneficial uses. A TMDL defines the amount of a given pollutant that may be discharged to a water body from point, non-point, and natural background sources and still allows attainment or maintenance of the applicable water quality standards.

Sussex County has appropriate processes in place to comply with the regulations of the TMDL program. The County should continue to monitor these regulations to ensure compliance.



5.2.4.2 Groundwater

Groundwater resources exist subsurface and are the sole source of drinking water in the County. While water quantity is not a concern in the County as a plentiful supply of groundwater exists; water quality is a concern as land use activities and practices can have a direct impact on the quality of the groundwater in the aquifers beneath them. For example, system failure of septic tanks can result in clogging and overflow or high-density placement of tanks can result in regions containing high concentrations of wastewater that can overflow into the water table.

Groundwater is regulated by DNREC and the regulation of public water supplies is shared between DNREC, the State Division of Public Health, and the Public Service Commission. In 2001, Delaware Legislature adopted a law that required county and municipal governments to delineate source water protection areas and adopt ordinances to minimize the impact of land use activities on the groundwater supply as well as reduce the risk of contamination of excellent groundwater recharge areas and wellhead protection areas. As the County ordinance was adopted nearly ten years ago and has been actively utilized in land use decision-making since then, the County is considering a review of the existing ordinance to determine if modifications are needed to further improve implementation of the ordinance. More information about source water protection, drinking water, and aquifers can be found in the Utilities Element of this Comprehensive Plan.

5.2.4.3 Wetlands

Tidal wetlands within Sussex County are protected by State Law. Section 404 of the Federal Clean Water Act regulates fresh water wetlands. Sussex County requires a wetland statement prior to final site plan approval and a wetland delineation if wetlands are present.

Both tidal and non-tidal wetlands have extensive natural and economic value. The boundaries of wetland areas must be accurately determined by qualified professionals prior to site plan reviews or before any County permits are used. Wetlands identification and protection is much more effective if qualified professionals are involved early in site analysis and design.

The County will consider evaluating the County's buffer requirement for wetlands and, based on the type of wetland, will consider establishing a minimum buffer distance of 50 feet to 300 feet for adequate protection efforts, and 100 feet to 500 feet for optimal protect efforts. These distances would be consistent with adequate and optimal buffer distances established by DNREC.

5.2.4.4 Floodplains

Floodplains encompass land areas adjacent to streams and waterways that are prone to flooding. Floodplains have been recognized for their stormwater storage functions and their inherent risks to life and property, resulting in a variety of restrictions and regulations over new development. Floodplains in Sussex County have been extensively identified and mapped by the Federal Emergency Management Agency (FEMA) and are a traditional tool used in determining flood insurance requirements. Figure 5.2-3 shows flood zones in Sussex County. Flood zones are



geographic areas that FEMA has defined according to varying levels of flood risk and are depicted on a Flood Insurance Rate Map (FIRM). Each zone reflects the severity or type of flooding in the area. Some of the flood zones have depths or base flood elevations available while others do not.

The Sussex County Zoning Code contains provisions for flood-prone districts as required by the Federal Emergency Management Agency for continued participation in the National Flood Insurance Program. The Code gives guidance to those parties utilizing these requirements.

The County has also been considering participation in FEMA's Community Rating System (CRS) of the federal flood insurance program. Under the CRS program, residents in communities that undertake specific flood preparation and prevention activities can get discounts on their flood insurance between 5 percent and 45 percent. These eligible activities range from public awareness and data collection, to preserving undeveloped floodplain land, to maintaining an updated flood response plan, to relocating flood prone buildings.





Figure 5.2-3 Watersheds and Waterways

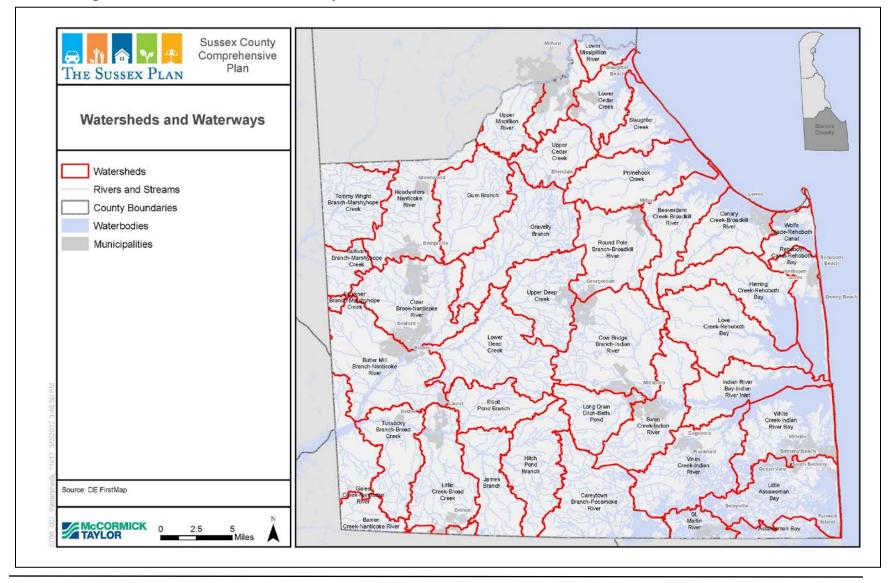
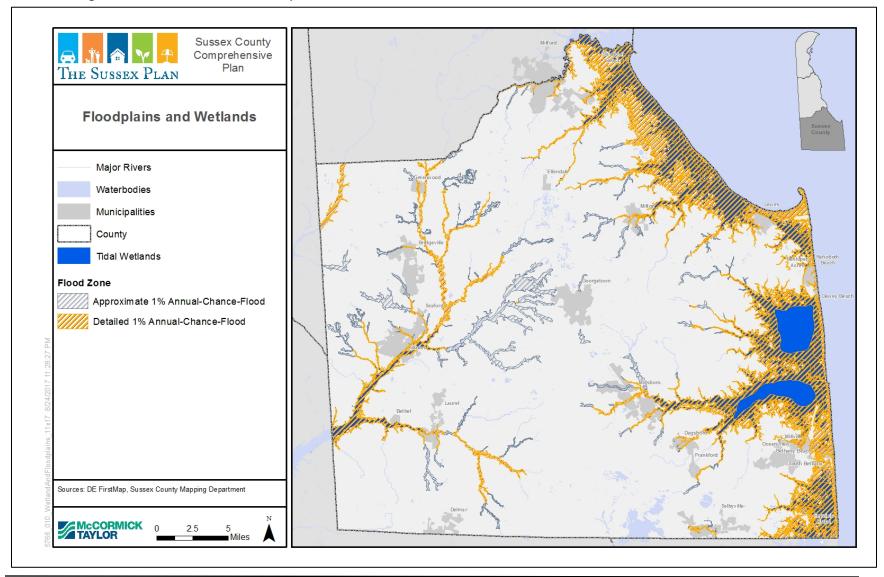




Figure 5.2-4 Wetlands and Floodplains



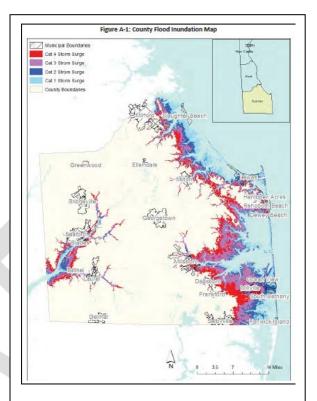


5.2.4.6 Severe Storms

Sussex County has experienced the damaging effects of severe storms such as thunderstorms, tropical storms, hurricanes, and nor'easters. There is potential over time that these storms may increase in intensity and duration as weather patterns change.

One of the major effects of severe storms is damage from flooding. Sussex County recognized this when it completed its Hazard Mitigation Plan update in 2016 and identified flooding as the highest risk hazard in the County.

As part of the Hazard Mitigation Plan, coastal flooding was modeled. The modeling shows storm surge areas associated with various category storm events. The plan also modeled depth of flooding from coastal and riverine flooding and estimated potential annualized losses countywide of \$129 million. Those areas most impacted by flooding and storm surge include the entire eastern coast of the County as well as those lands adjacent to the Nanticoke River and its tributaries.



County flood inundation map from the 2016 Sussex County Hazard Mitigation Plan

To address ways to mitigate the effects of natural and human-made hazards, the Hazard Mitigation Plan includes a number of mitigation actions. These include ways to protect residents living in flood-prone areas, improved education and awareness, and partnerships with DNREC and DelDOT to endorse federally-funded projects that restore portions of the County's coastline experiencing coastal erosion. As the County works to implement the mitigation actions of the Hazard Mitigation Plan it should also work to protect residents from the impacts of flooding as it makes land use decisions. One way to do this is to better understand the future impacts of flooding as part of the County's Mitigation Plan. The County should evaluate the effectiveness and consider implementation of the mitigation actions of the County's Hazard Mitigation Plan in order to reduce the County's risk to natural and human-made hazards.

It should be noted that FEMA requires that County Hazard Mitigation Plans be updated every five years. As such, the next update of the County's 2016 Hazard Mitigation Plan is anticipated to occur before the next update of this County Comprehensive Plan. The next Hazard Mitigation Plan Update should reference information in this Comprehensive Plan to ensure consistency between the two documents.



5.2.5 Air

Clean air is important for the health of Sussex County residents and visitors. The US Environmental Protection Agency tracks seven pollutants at air quality monitoring stations across the State. Sussex County is currently meeting National Ambient Air Quality Standards for these pollutants. Nevertheless, there are opportunities for Sussex County to work with federal and state agencies and non-governmental agencies to identify opportunities to continue to maintain and improve air quality as the population of the County continues to grow. For example, this can include promoting walkable communities and development that reduces the use of personal automobiles as well as working with DelDOT to improve traffic flows.

5.3 SUSSEX COUNTY DEVELOPMENT REGULATIONS AND CONSERVATION INITIATIVES

Sussex County Council recognizes that rapid growth creates extraordinary environmental pressures, particularly in complex and sensitive coastal ecosystems. In addition to the standard regulations that counties and municipalities use to govern permitted uses, lot size, density, yard size and similar matters, Sussex County's Zoning Ordinance and Subdivision Code contain numerous special regulations designed to protect environmental resources. Examples include the following:

- Within this Comprehensive Plan update, Sussex County has designated what was previously referred to as the Environmentally Sensitive Developing Areas as Coastal Areas. All applicants for developments of a minimum size (as specified in zoning) with the Coastal Areas must prepare an environmental assessment. The Environmentally Sensitive Development District Overlay Zone (ESDDOZ) will be updated to be consistent with this Plan.
- Subdivision regulations that require forested buffers, minimum common open space, and a special design review by a County-appointed Technical Advisory Committee.
- Regulations mandating construction setbacks from primary coastal dunes.
- Regulations restricting building activity within the 100-year floodplain.
- Regulations that mandate building setbacks from tidal waters and tidal wetlands.
- Conservation zones are established landward from the mean high-water line of tidal bodies and regulate lot size for parcels proposing individual on-site septic and wells.
- A Combined Highway Corridor Overlay Zoning District where building setbacks, landscaping and other regulations are enforced to enhance roadside aesthetics.



- A Source Water Protection Ordinance to protect critical areas from activities and substances that may harm water quality or subtract from overall water quantity.
- Sediment and Stormwater Management is a collaboration with SCD and DNREC to protect, maintain and enhance the public health, safety and general welfare by establishing minimum requirements and procedures to control the adverse impacts associated with sediment and modified stormwater characteristics.
- County Code Chapter 110: Water and Sewers, which contains regulations relating to sewer use; extension of public water and/or sewer systems; sewer and water assessments and service charges; sewer connections; transfer, exchange, or conveyance of equivalent dwelling units; sanitary sewer and water districts; and private community water systems. Proper wastewater management and coordination is very important in order to prevent water pollution. The County provides public sewer in some areas of the County. Availability of public sewer is important in areas with a concentration of failed or potentially failing septic systems in order to better protect surface water and groundwater. More information about wastewater and water utilities in the County can be found in the Utilities Element of this plan.

In addition to regulations contained in County Code, the County also provides financial support for the conservation of resources. In addition to the financial contributions that Sussex County has made in previous years to the Sussex County Land Trust for open space acquisitions (see Section 5.4.1 below) and to the State to assist with farmland preservation, Sussex County also provides various conservation-related grants. Examples of these annual grants include grants to conservation organizations such as Delaware Ducks Unlimited or soil conservation grants for tax ditches or drainage projects.

The County also receives open space contributions for those developments choosing to take advantage of the bonus density program outlined in the County Code. As of August 2017, the County has received three contributions under the bonus density program totaling \$1.4 million. However, these funds have not yet been spent on land acquisitions. The County should evaluate the County density bonus program to determine how to better encourage use of the program. The County should also consider options to better track the amount of open space and natural resource areas that are preserved on an annual basis. Plans and funding sources would then be developed to support the goal and help guide the County in how many acres it would target to preserve each year and also help guide where to focus preservation efforts.

The County seeks to encourage development practices and regulations that support natural resource protection. For all new developments, the County will consider changing the minimum buffer distance, which could be increased based on proximity of adjacent uses, intensity of use, or height. The County would like to consider the creation of an ordinance designed to protect established, mature, healthy trees during the construction of new developments to better preserve



existing trees and green space. The County is considering a review of County Code to determine improvements to the requirements and locations of the Conservation Zone.

5.4 OTHER PLANS AND CONSERVATION INITIATIVES

Federal, State, County, municipal, and private parties work together and separately to help preserve Sussex County's natural environment. The following is a summary overview of other selected major conservation initiatives underway that affect the County.

5.4.1 The Sussex County Land Trust

The Sussex County Land Trust is a private non-profit organization that preserves open space by acquiring easements and title to undeveloped land. The Land Trust aims to provide connectivity to other preserved parcels and open tracts. More information about open space preservation can be found in the Recreation and Open Space Element.

The Land Trust works closely with Sussex County Council, state government, and other conservation groups to preserve open space by acquiring easements and acquiring title to undeveloped land. Sussex County has provided financial support to the Land Trust. In the future, the County may consider the implementation of strategies, such as deeded acquisition and preservation easements, as an approach to permanently preserve the County's open space.

In addition to acquiring and administering easements on smaller tracts, the Sussex County Land Trust also uses its funds to leverage state dollars, donations from the Nature Conservancy, federal monies and other support toward large open space purchases. There are several notable examples of these strategic and leveraged conservation efforts. The 908-acre Ponders Tract is important forest land habitat with an extensive trail system. When added to the adjacent 456-acre Pemberton Tract, it makes up the 1,364-acre Pemberton Forest Nature Preserve. The Sussex County Land Trust has also worked with the Nature Conservancy to secure conservation easement agreements from local landowners to protect 600 acres within the heart of the Great Marsh near Lewes, and 149 acres along nearby Beaverdam Creek.

5.4.2 Inland Bays Preservation

The Inland Bays are experiencing degradation due to silt deposition. The loss of navigable waterways to silting is increasingly detrimental to recreational opportunities as well as the survival of businesses and jobs dependent on recreation and tourism. The County should work with municipal, state, and federal officials to ensure the survival of the County's navigable waterways.

The Delaware Center for the Inland Bays (DCIB) was established as a nonprofit organization in 1994 under the auspices of the Inland Bays Watershed Enhancement Act. It was created after two decades of active public concern and investigation into the decline of the Inland Bays and effective remedies for the restoration and preservation of the watershed.

Delaware's Inland Bays were designated an "estuary of national significance in 1988 by the U.S. Congress, and as such, the Center for the Inland Bays is one of the 28 National Estuary Programs



(NEP's) formed. The Center oversees the implementation of the Comprehensive Conservation and Management Plan for Delaware's Inland Bays (CCMP) and 2012 Addendum. This document promotes the wise use and enhancement of the Inland Bays watershed by conducting public outreach and education, developing and implementing restoration projects, encouraging scientific inquiry, sponsoring needed research, and establishing a long-term process for the protection and preservation of the watershed.

As a participant in the 2018 Sussex County Comprehensive planning process, CCMP actions were examined by DCIB for their relation to the County Comprehensive Plan. Their recommendations are summarized below in order of priority:

- Increase and enhance water quality buffers
- Improve wastewater management and coordination
- Improve stormwater management
- Preserve open space and improve water access
- Plan for climate change

DCIB also provided a list of suggested strategies for consideration for the County Comprehensive Plan. Sussex County reviewed the provided strategies and incorporated relevant strategies into Section 5.5 of this Conservation Element.

5.4.3 Delaware Bay Estuary Project

The Delaware Bay Estuary Project is part of the U.S. Fish and Wildlife Service's National Coastal Program. The U.S. Fish and Wildlife Service collaborates with other federal agencies, non-profit conservation groups, landowners, and the states of Delaware, Pennsylvania, Maryland, Virginia and New Jersey to protect and restore the ecological integrity of wildlife resources in the Delaware River and Delmarva Peninsula. The project involves identification and monitoring of shorebird populations, conservation and restoration of tidal and non-tidal wetlands, conservation of contiguous forests, and restoration of riparian and fish habitat. The program also helps partners compete for federal funds available through the U.S. Fish & Wildlife Service for habitat assessment, protection and restoration.

5.4.4 Living Shorelines Program

The Partnership for the Delaware Estuary (PDE) is a non-profit organization dedicated to protecting the Delaware Estuary. Like the Delaware Center for the Inland Bays, PDE is one of 28 national estuary programs designated by Congress. The Delaware Estuary stretches from Trenton, New Jersey, and Morrisville, Pennsylvania, south to Cape May, New Jersey, and Cape Henlopen, Delaware, including all of the Delaware Bay and the tidal reaches of the Delaware River. PDE is leading the Delaware Estuary Living Shoreline Initiative, created to address the increased loss of tidal salt marshes in the Delaware Estuary. It is engaging in projects to help stabilize eroding shorelines using a combination of native wetland plants, natural structures, and intertidal shellfish to trap sediment and absorb waves. This unique "living shoreline" tactic provides an economical approach for communities in the Delaware Estuary to combat the erosion



of tidal marshes which play an important role by filtering water. Also, when waters rise, marshes retain floodwaters and buffer against storm surges.

5.4.5 Other State Initiatives

State agencies have endeavored to identify and help preserve Delaware's "green infrastructure", which DNREC describes as a network of natural areas, parks, conservation areas, and working lands with conservation value that contribute to the health and quality of life in Delaware. Some additional state initiatives include:

- Urban and Community Forestry Program Delaware's Urban and Community Forestry Program is dedicated to preserving and enhancing Delaware's community forests, which play a critical role in our quality of life. Trees in towns and suburban areas provide a wide array of benefits including cleaner air and water, wildlife habitat, shade, erosion protection, and aesthetics. Delaware's Urban and Community Forestry Program offers technical and financial assistance programs to help municipalities, nonprofit groups, community associations, and homeowners to plant and care for trees.
- Soil Conservation and Farmland Management In cooperation with the State, the three County Conservation Districts in Delaware each offer cost sharing incentives for landowners willing to initiate best management practices for: a) controlling erosion and sedimentation; b) managing animal waste; c) restricting cattle access to streams; and d) related conservation activities on working farms. The Sussex Conservation District has a number of programs it administers, including a cover crop program, animal mortality management assistance, a tax ditch cost share program, administration of the State Revolving Fund Agricultural Nonpoint Source Loan Program, and a conservation cost share program for erosion control, animal waste systems, water management, and wildlife habitat.
- Wildlife Conservation Sussex County's coastal marine waters, marshes, freshwater streams, wetlands, upland forests and meadows are among the 125 different habitat types identified in Delaware by DNREC's 2015 Delaware Wildlife Action Plan (DEWAP). The DEWAP is a voluntary program that is critical to helping Delaware fulfill its objectives to conserve its abundant fish and wildlife and natural habitats for the future. The State Wildlife Grants (SWG) program assists state fish and wildlife agencies with conservation of all wildlife species and their habitats. By Congressional SWG requirements, each state and territory must revise the Wildlife Action Plan every 10 years to remain eligible for these funds.

The U.S. Fish and Wildlife Service also has a program called Partners for Fish & Wildlife which works with private landowners to improve fish and wildlife habitat on their lands. The program provides technical and financial assistance to private landowners to assist with projects that conserve or restore native vegetation, hydrology, and soils to provide an important habitat for rare, declining, or protected species.



- Wetlands Conservation As noted earlier, state and federal regulations provide extensive protection to wetlands when wetlands are mapped accurately, and wetland regulations are actively enforced. Recognizing that wetlands throughout Delaware have disappeared due to development, DNREC and others offer both technical assistance and financial help to landowners who wish to restore wetlands, establish permanent wetlands on their property, or permanently conserve existing wetlands through conservation easements. Organized under the DNREC Division of Watershed Stewardship, the goal of the Ecological Restoration and Protection Team is to restore and protect streams, drainage ditches, wetlands, and riparian corridors in a coordinated effort to ensure that the maximum level of environmental results are being derived to enhance water quality, provide stream-bank protection and reduce erosion, and establish wildlife habitat.
- Beach Preservation The Department of Natural Resources and Environmental Control's (DNREC) Division of Watershed Stewardship, Shoreline and Waterway Management Section is tasked with enhancing, preserving and protecting the public and private beaches along the Delaware Bay and Atlantic Ocean within the State of Delaware by the Beach Preservation Act. Approximately 44 miles of that coastline is located within Sussex County. DNREC uses science-based dune and beach management practices that include filling eroding beaches with sand, rebuilding dunes following coastal storms, planting beach grass to promote dune growth and fencing dunes to protect them from pedestrian and vehicular traffic. Through the Regulations Governing Beach Protection and the Use of Beaches, DNREC also protects the beach and dunes through a construction permitting process. Prior to issuing building permits Sussex County requires DNREC approval for construction activities within the defined regulated area adjacent to the coastline.
- The Chesapeake Bay Drainage in Delaware The Chesapeake Bay Watershed includes land area within Delaware, the District of Columbia, Maryland, New York, Pennsylvania, Virginia, and West Virginia. The portion of the Chesapeake Drainage within Delaware makes up about 1% of the land area within the entire Chesapeake Bay Watershed. The watersheds that make up the Chesapeake Drainage in Delaware encompass a 451,268 acre area of land in all three of Delaware's counties. The Chesapeake makes up approximately 10% of New Castle County, 33% of Kent County and 50% of Sussex County. In 2000, the State of Delaware entered into a Memorandum of Understanding with the Chesapeake Bay Program signatory jurisdiction, Maryland, Pennsylvania, Virginia, District of Columbia, EPA, and the Chesapeake Bay Commission, to encourage participation in the restoration of the Bay from jurisdictions in the entire watershed. The State of Delaware also committed to working cooperatively with the other parties to achieve the nutrient and sediment reduction targets that all agree are necessary to achieve the goals of a clean Chesapeake Bay thereby allowing the Chesapeake and its tidal tributaries to be removed from the list of impaired waters. Representatives from DNREC and the Department of Agriculture participate on Chesapeake Bay Program committees and workgroups, which discuss the science, modeling, and policy decisions that impact this TMDL and restoration efforts. Additionally, because of Delaware's commitment to



improve water quality in the Chesapeake watershed, DNREC has been the recipient of an EPA-Chesapeake Bay Program headwater implementation grant, and more recently a regulatory and accountability grant (CBRAP), and these funds have assisted the State with data tracking and reporting and increased the implementation of projects and practices that have resulted in the reduction of nutrients and sediment to receiving waters. Delaware is currently working with the County, Sussex Conservation District, and the municipalities within the watershed, on nutrient reduction strategies for Phase III of the Watershed Implementation Plan(WIP). Delaware's Phase III WIP will go into effect in the summer of 2019.

5.5 CONSERVATION GOALS, OBJECTIVES, AND STRATEGIES

The following goals, objectives, and strategies identify ways Sussex County can: a) continue its participation in conserving more land in the County; b) help ensure that the County's environmental resources are better protected; and c) encourage more farmland and forestland preservation. Sussex County government can carry out some of these initiatives on its own. In other cases, cooperatives efforts will be needed. Many of these actions are helpful techniques for protecting specific natural features. However, to be most effective, they will need to be implemented in association with the more comprehensive growth management strategies outlined in the Future Land Use Element of this plan.

Goal 5.1: Preserve, maintain, and enhance the natural resources and natural systems in the County.

Objective 5.1.1 Encourage development practices and regulations that support natural resource protection.

Strategy 5.1.1.1 Revisit code to determine if modifications are needed to open space requirements or if incentives can be developed to promote less fragmentation of open space.

Strategy 5.1.1.2 Identify an appropriate range of landscape buffer distances based on location, height, and context.

Strategy 5.1.1.3 Evaluate the County density bonus program to determine how to better encourage the use of the program.

Strategy 5.1.1.4 Review County Code to determine improvements to the requirements and location of the Conservation Zone.

Strategy 5.1.1.5 Revaluate County Code definition of Open Space to determine if modifications need to be made relating to the calculation of open space.

Strategy 5.1.1.6 Consider creating an ordinance designed to protect established, mature, healthy trees during the construction of new developments to better preserve existing trees and green spaces.



- **Objective 5.1.2** Protect natural and agricultural areas by directing development and growth away from these areas.
 - **Strategy 5.1.2.1** Encourage development to Growth Areas and that will result in conservation of natural areas.
 - **Strategy 5.1.2.2** Review the appropriate sections of Sussex County's zoning and subdivision codes to determine if amendments are needed that will better help protect groundwater, waterways, sensitive habitat areas, and other critical natural lands in Sussex County.
- **Objective 5.1.4** Coordinate with government agencies and non-governmental organizations to identify and protect natural resources and habitat.
 - **Strategy 5.1.4.1** Continue working with the State to identify opportunities for the State to acquire additional lands in Sussex County designated as Natural Areas.
 - **Strategy 5.1.4.2** Continue working with the Sussex County Land Trust to use funds collected from developers and funds leveraged from other sources to preserve more land and open space through conservation easements and fee simple acquisitions.
 - **Strategy 5.1.4.3** Work with DNREC, the Delaware Department of Agriculture, the Sussex County Land Trust, and non-profits to continue adding appropriate properties to the inventory of protected lands in Sussex County, particularly to link together existing state-owned forests and existing open space.
 - **Strategy 5.1.4.4** Consider methods to formulate stronger strategies for better protecting groundwater, waterways, sensitive habitat areas, and other critical natural lands in Sussex County.
 - **Strategy 5.1.4.5** Continue and expand partnerships with conservation organizations to manage preserves.
 - **Strategy 5.1.4.6** Consider options to better track the amount of open space and natural resource areas preserved by the County on an annual basis.
- **Objective 5.1.5** Explore new funding mechanisms for conservation in the County.
 - **Strategy 5.1.5.1** Consider renewal of the County's contribution to the State Farmland Preservation Program and other federal or state programs.
 - **Strategy 5.1.5.2** Consider County-level financing mechanisms for open space preservation and management to leverage state and federal dollars.
 - **Strategy 5.1.5.3** Consider strategies, including deed acquisition and preservation easements, as an approach to permanently preserve the County's open space.



Objective 5.1.6 Promote education of citizens and elected officials of the County regarding the need to protect and preserve natural resources.

Strategy 5.1.6.1 Support the Center for the Inland Bays and other conservation groups in their efforts to educate more people about the necessity of protecting tidal wetlands and other natural resources.

Goal 5.2: Encourage protection of farmland and forestland.

Objective 5.2.1 Recognize and promote the conservation benefits of having land in agriculture and forestry.

Strategy 5.2.1.1 Encourage more farm owners to enroll in a voluntary State Agricultural Preservation District or similar program.

Strategy 5.2.1.2 Promote farm easement programs by the State, NRCS, and private land conservancies.

Strategy 5.2.1.3 Work with the Delaware Department of Agriculture and the farming community to preserve more Sussex County farms through agricultural preservation easements.

Strategy 5.2.1.4 Support and promote the Forest Legacy Program and other programs that sustain and protect working forests.

Strategy 5.2.1.5 Promote Delaware's Urban and Community Forestry Program to preserve and enhance Delaware's community forests.

Objective 5.2.2 Pursue opportunities to increase the financial viability of the agriculture and forestry industries.

Strategy 5.2.2.1 Work with landowners and Delaware Forest Service to protect high value forest tracts and improve the diversity and quality of forest tracts.

Strategy 5.2.2.2 Explore incentives that the County could offer landowners (e.g. property tax exemption) to encourage long-term forest management.

Goal 5.3: Ensure the protection of the natural functions and quality of the County's surface waters, groundwater, wetlands, and floodplains.

Objective 5.3.1 Protect surface water and drinking water quality.

Strategy 5.3.1.1 Consider developing a program for wetlands and waterways protection.

Strategy 5.3.1.2 Support the State's goals and standards for surface and drinking water quality.



Strategy 5.3.1.3 Identify an appropriate range of wetlands buffer distances based on location and context.

Strategy 5.3.1.4 Develop incentives to encourage the redevelopment of brownfields and greyfields.

Strategy 5.3.1.5 Determine if a review of the existing County wellhead protection ordinance and water recharge areas is needed.

Strategy 5.3.1.6 Recognize the Inland Bays, their tributaries and other waterbodies as valuable open space areas of ecological and economic importance.

Strategy 5.3.1.7 Explore opportunities to better support waterway management.

Strategy 5.3.1.8 Work with agencies and landowners to determine additional protections of significant natural resources, like the Great Marsh.

Strategy 5.3.1.9 Encourage the survival of the County's navigable waterways by working with municipal, State, and federal officials.

Objective 5.3.2 Maximize the performance of wastewater management to protect water quality.

Strategy 5.3.2.1 Prioritize the provision of public sewers to areas with concentration of failed or potentially failing septic systems in order to better protect surface water and groundwater.

Objective 5.3.3 Promote techniques and activities that protect and enhance water quantity.

Strategy 5.3.3.1 Protect long-term water supply by encouraging land conservation in groundwater recharge areas.

Objective 5.3.4 Better manage stormwater runoff to preserve water quality.

Strategy 5.3.4.1 Continue to support the Sussex Conservation District's Conservation Programs and its management and implementation of the Statewide stormwater regulations.

Strategy 5.3.4.2 Consider support of the State's efforts that support farmers and encourage best management practices on farms in order to control runoff and maintain water quality of waterways.

Strategy 5.3.4.3 Continue participation in the stormwater regulatory advisory process with the State for the development of improved stormwater regulations.



Strategy 5.3.4.4 Research or coordinate with the Conservation District on tax ditch setbacks.

Objective 5.3.5 Reduce flooding and erosion.

Strategy 5.3.5.1 Evaluate the effectiveness of the County floodplain ordinance to determine if modifications are needed.

Strategy 5.3.5.2 Evaluate the effectiveness and consider implementation of the mitigation actions of the County's Hazard Mitigation Plan in order to reduce the County's risk to natural and human-made hazards.

Strategy 5.3.5.3 Pursue Community Rating System status through FEMA to obtain lower flood insurance rates for homeowners.

Strategy 5.3.5.4 Consider the evaluation of the future impacts of flooding as part of Sussex County's Mitigation Plan.

Strategy 5.3.5.5 Support shoreline stabilization initiatives, such as the Partnership for the Delaware Estuary's Living Shoreline initiative and other similar programs.

Goal 5.4: Maintain and improve air quality.

Objective 5.4.1 Work with federal and state agencies and non-governmental agencies to identify opportunities to improve air quality in the County.

Strategy 5.4.1.1 Examine the County's obligation under federal air quality regulations that promote air quality credits to offset emissions from new transportation projects.

Strategy 5.4.1.2 Work to reduce auto emissions by supporting alternative travel modes and/or improved traffic flow.



Chapter 6. RECREATION AND OPEN SPACE

<u>Recreation and Open Space Vision</u>: To be a place where open space for passive and active recreation is an integral part of development and growth.

6.1 OVERVIEW OF RECREATION AND OPEN SPACE OPPORTUNITIES

Sussex County residents and visitors have many choices on how to spend their outdoor leisure time. The County is famous for its renowned public beaches. Innumerable docks, marinas, boat launches, and landings provide access to the Atlantic Ocean, the Inland Bays and the County's rivers and creeks. State parks, state forests, federal and state wildlife refuges, municipal parks, nature preserves, and multi-use trails and greenways offer a diverse variety of public recreation opportunities. In addition, there are recreational opportunities provided through the school districts, non-profit, and for-profit organizations. This chapter looks at the recreational and open space opportunities and outlines strategies for sustaining and expanding public recreation choices in Sussex County.

6.2 STATE RECREATION AND OPEN SPACE

By far, the largest amount of recreation and open space lands in the County is owned and managed by the State through DNREC. With over 40,000 in acreage in state parks, forests, wildlife areas, nature preserves, ponds, and other open spaces, Sussex County residents and visitors have access to a wide variety of landscapes and recreational opportunities.

6.2.1 State Parks

Fishing, camping, boating, hunting, swimming, and hiking are among the primary activities offered at the state parks in Sussex County. There are five state parks in the County. These parks as well as other public federal, state, county, municipal, and privately managed, protected lands that are open to public access are depicted in Figure 6.2-1.

 Cape Henlopen State Park is a 5,193-acre park in Lewes, where the Atlantic Ocean meets the Delaware Bay. The park features public beaches, a nature trail, a World War II observation tower, family campgrounds, and an 18-hole disc golf course. There is also a quarter-mile fishing pier

World War II Observation Tower at Cape Henlopen State Park

onto the Delaware Bay. Winter hunting is permitted in some areas.

 Delaware Seashore State Park is a 2,825-acre park located between Dewey Beach and Bethany Beach. It has six miles of ocean and bay shoreline for fishing, swimming and



sunbathing. The park features a 250-slip marina and a boat ramp. Seasonal hunting is permitted in some areas of the park.

- Holts Landing State Park, originally a family farm, is a 203-acre park located on the southern shore of the Indian River in Millville. Recreational facilities include tree-shaded picnic areas with grills, a playground, two ball fields, a boat-launching ramp for small, motorized boats, sailboats, and windsurfing boards. The park also features the only pier on the Inland Bays built specifically for crabbing.
- Fenwick Island State Park is a 344-acre park situated between Bethany Beach to the north and Fenwick Island to the south. Little Assawoman Bay forms the western edge of this park, providing many opportunities for salt water recreation. The park has large areas of ocean and bay shoreline for swimming, surfing, and surf fishing. Seasonal hunting is allowed in some areas of the park. The park also has one the State's few designated surfing areas.
- Trap Pond State Park is a 3,653-acre park located four miles east of Laurel off Route 24. The park has over 21 miles of trails and offers hiking, biking, fishing, swimming, and camping activities around the park's 90-acre pond. Picnicking, abundant wildlife, wild flowers and the country's northernmost stand of Bald Cypress trees is also found there. The park also features the Baldcypress Nature Center which offers education and recreation opportunities as well as a as meeting and conference space.

6.2.2 State Forest

Delaware's state forests are managed for a variety of objectives including timber production, habitat enhancement, forestry demonstrations, and forestry research. State forests also provide recreation opportunities such as hiking, horseback riding, and hunting.

Redden State Forest, managed by the Delaware Forest Service under the Department of Agriculture, is located in central Sussex County north of Georgetown. It offers over 44 miles of trails, some primitive camping sites, lodging at Redden Lodge, a nature center, and a catch and release fishing pond It is also popular for hiking, horseback riding, bicycling, and bird watching. At over 12,400 acres (distributed over 18 tracts), it is the largest of Delaware's three state forests.

6.2.3 State Wildlife Areas, Nature Preserves, and Other Open Space Areas

DNREC also manages over 24,000 acres of wildlife areas, nature preserves, natural areas, and other open space areas and ponds in Sussex County. At many of these areas, DNREC provides boat ramps/launches, fishing access/piers, and nature trails (see Figure 6.2-1). For example, DNREC operates a public boat ramp, fishing pier and basin at Massey's Landing, at the far eastern tip of Long Neck. Another popular boating location in the County is Phillips Landing at the Nanticoke Wildlife Area, which features a public boat ramp to access Broad Creek and the

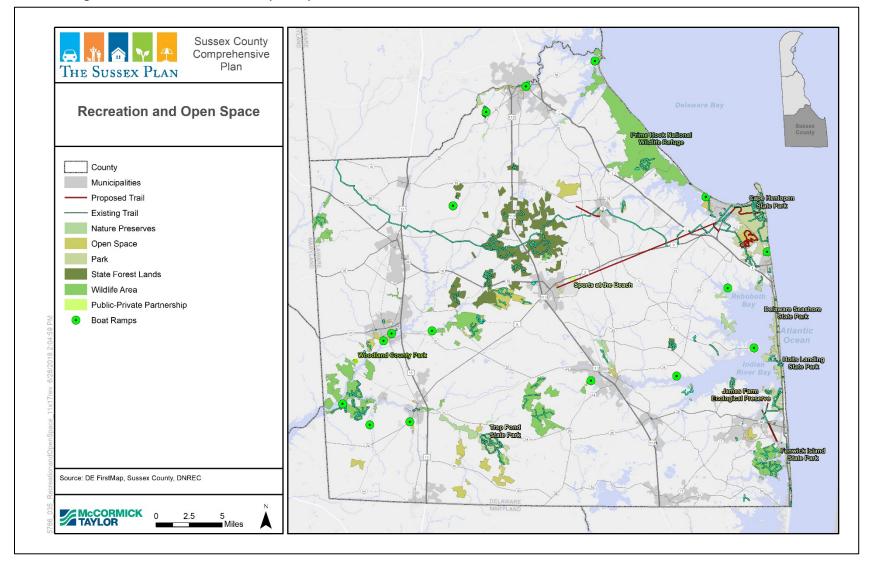


Nanticoke. Hunting is permitted at some of the wildlife refuges, and specific regulations are available on DNREC's Division of Fish and Wildlife website.





Figure 6.2-1 Recreation and Open Space





6.3 FEDERAL RECREATION AND OPEN SPACE OPPORTUNITIES

Prime Hook National Wildlife Refuge is a 10,144-acre refuge in Sussex County managed by the US Fish and Wildlife Refuge. It is an important site for conservation as it is a stopover site for migratory birds and provides breeding habitat. In addition, it is open to the public for recreation activities such as wildlife observation and environmental education.



Prime Hook National Wildlife Refuge

6.4 COUNTY AND LOCAL RECREATION AND OPEN SPACE OPPORTUNITIES

In Sussex County, the incorporated municipalities and private non-profit entities are the prime parties responsible for the construction and maintenance of local public parks and trails. They manage almost 2,500 acres of public recreation and open space lands in Sussex County. In addition, the school districts and private organizations also construct and maintain recreation facilities. Private organizations range from several Little League Organizations operating across the County to the Western Sussex Boys and Girls Club in Seaford that offers a wide variety of programming for the local community, a full size heated pool, and an athletic gym.

The municipalities and assorted private groups provide most recreation programming in Sussex. Sussex County donates to various recreation-related community groups to assist with these efforts. For example, in FY 2017, the County awarded over \$11,000 in grants to various community groups such as little leagues and rotary clubs for recreation-related activities and provided \$20,000 for the Little League World Series. The County also provides \$15,000 annually to Fenwick Island to provide lifeguards on four blocks of the beach within the County.

Sussex County previously did not own any parks; however, in 2016 it converted 20 acres between Seaford and Woodland Ferry into a county park called Woodland Park. The land was acquired in 2010 to receive dredged soil from the Nanticoke River. The County committed almost \$163,000 to convert the property into a park containing gravel trails, a parking lot, and an information kiosk.

The County also owns the 150-acre James Farm Ecological Preserve. The property was donated to the County in the early 2000's. It is however managed by Center for Inland Bays, which receives annual funding support from the County for its operations at the site. The James Farm Ecological Preserve is currently undergoing a major renovation utilizing a \$37,500 County grant to upgrade the preserve entrance, provide school bus access, and add an informational kiosk and other learning areas.

The County is also working with DNREC to convert a farm the County leases from the state to spray wastewater from the Wolfe Neck Regional Wastewater Facility. The project, once complete,



will involve conversion of 376 acres of farmland to woodlands. In addition, the project will involve construction of public, passive recreation trails and connect to the Junction & Breakwater Trail.

Sussex County also helps finance open space preservation through general revenue funds in cooperation with the Sussex County Land Trust. Typically, the preserved tracts are administered by a conservation group if purchased outright. The tracts remain in private hands if they were preserved by easement. However, the last year that acreage was acquired was in FY 2010, and there have not been any County contributions to the Land Trust since FY 2013.

The County also collects funds from developers through bonus density open space contributions. In recent years, the County has had three contributions totaling over \$1.4 million, and is in the process of determining how best to utilize these funds for open space preservation.

Although Sussex County does not currently have a Recreation and Open Space Department, or staff specifically dedicated to advancing recreation and open space opportunities in the County, County staff from various departments provide technical support to non-profits and municipalities engaging in recreation and open space planning. For example, the County's Historic Preservation Planner assisted with efforts to designate and promote the two byways in the County (see Chapter 11). Additionally, the County Planning Department provides technical support to the Delaware Botanic Gardens at Pepper Creek, a nonprofit organization that is in the process of creating a public botanic garden at a 37-acre site along Piney Neck Road. The parcel contains a mix of farmland, woodland, and tidal waterfront on Pepper Creek. The target date for completion of the project is 2019. According to the master plan for the site, the garden will contain a visitor center, parking areas, trails, boardwalk, and other site features.

6.5 GREENWAYS AND TRAILS

DNREC's Division of Parks and Recreation defines a greenway as follows:

"A greenway is a natural area of unbroken vegetation where recreation and conservation are the primary values. They link parks, forests, wildlife refuges and historical landmarks. Greenways can follow rivers, streams, wetlands, barrier beaches, hilltops and abandoned rail lines, and cross fields and forests. Some greenways are publicly owned; others are private; some are for recreation; others protect a scenic view or wildlife habitat. Greenways can include biking and hiking trails, and paths of grass and trees threading their way through cities and countryside like ribbons of green."

The Delaware Council on Greenways & Trails is appointed by the General Assembly to preserve, protect and link the State's green open spaces. The Council encourages local communities, counties, and State agencies to work together toward greenway goals. The Council also works closely with other public and private groups to foster new greenways and trails.

Trails are present at all five of the state parks, Prime Hook Wildlife Refuge, Redden State Forest, and many of the state wildlife areas and nature preserves in Sussex County. In addition, there are several existing and proposed greenways and trails in the County. These are not contained



entirely within recreation and open space; however, they serve to connect areas by utilizing roads, right-of-way, or waterways. Some are clearly defined recreation corridors already in use. Others are planned routes or initial concepts that require further study, design and implementation.

- Park with Hebron Road in West Rehoboth with 6 miles of crushed stone. It takes its name from the former Penn Central Rail Line that ran between Lewes and Rehoboth in the mid 1800's. As of 2018, this is the longest rail-trail in Sussex County and Delaware. Northern trail access points in Lewes include from Kings Highway opposite the Cape Henlopen High School and from Gills Neck Road, west of the entrance to the Hawks Eye Community. At the Gills Neck Road trailhead, there is access to the Georgetown-Lewes Trail. West Rehoboth access is from Hebron Road, just off Route 1. No parking is available at these access points. Trail access from the historic Wolfe House in Rehoboth Beach includes a 56-car parking lot, an information center, and a bike rack. The trail includes a reconstructed 80-foot railroad bridge across Holland Glade, a dedicated bike path through the Hawkseye and Showfield developments, and a bathroom, water station and bike repair station adjacent to the Lewes Library. The Junction and Breakwater Trail, now complete, represents an excellent partnership among state, county and municipal governments, as well as developers.
- Georgetown-Lewes Rail/Trail opened in 2016 with one-mile of off-road, paved trail from Gills Neck Road to Savannah Road. It will eventually span 17 miles to link Cape Henlopen State Park in Lewes with South Railroad Avenue in Georgetown. Junction and Breakwater Trail is accessible from the Georgetown-Lewes trail along Gills Neck Road. Phase I follows the Delaware Coast Line Railroad. Originally, it was planned for the entire trail to be built alongside the railroad, however a section of tracks has been decommissioned and, starting in 2018, several miles of track will be removed to make way for Phase II of the trial. Phase II will run from Savannah Road to Minos Conway Road in Lewes. The trail, once complete, will be the longest multi-use trail in Delaware.
- Assawoman Canal Trail is an approximately 2-mile trail that connects Ocean View, Bethany, and South Bethany Beaches. The first phase of it opened in 2015 and the trail is built on the old federal right of way that was created when the canal was originally built. DNREC is working on plans to extend the trail further.
- American Discovery Trail is a continuous 6,356-mile trail that extends across the United States coast to coast – from Cape Henlopen State Park to Point Reyes, California. The trail travels 45 miles through Sussex County, primarily on road shoulders and sidewalks.
- Coastal Heritage Greenway celebrates the diverse history of Delaware's waterfront from
 colonial settlement to 20th century industrialization. The greenway is a corridor that spans
 the coast for 90 miles from Fox Point State Park north of Wilmington to the state line at
 Fenwick Island. It is designed as a 27-stop auto tour with various side trips for hiking,



biking, sightseeing, and other activities. From Dover to Dewey Beach, the greenway lies east of Route 1. From Dewey Beach to Fenwick Island, Route 1 is the center of the greenway. Popular Sussex County stops include Mispillion Lighthouse, Prime Hook National Wildlife Refuge, Beach Plum Island Nature Preserve, Lewes, and other points south.

- Captain John Smith Chesapeake National Historic Trail is a water trail overseen by the National Park Service. It starts in the Chesapeake Bay and branches through the Nanticoke River.
- Historic Lewes Byway was created through the Byways program, a tourism-based project
 run through the Delaware Department of Transportation intended to link historic sites
 through routes to encourage motorists to explore new areas. The Lewes Byway is over 12
 miles long and takes travelers through the city of Lewes and Cape Henlopen State Park.
- Nanticoke Heritage Byway is the second byway in Sussex County created through DelDOT's Byways Program. It is approximately 35 miles in length and extends along several roads in western Sussex County through Seaford, Bethel, Laurel, and Trap Pond State Park.
- Statewide, Regional, and Connector Bicycle Routes DelDOT maintains electronic versions of Delaware bicycle maps on its website http://deldot.gov/Programs/bike/biking in delaware. Routes include north-south connections among Delaware counties; routes that provide direct connections between major municipalities and activity centers; and routes that provide connections from local activity and recreation centers to the larger bicycle networks.

Several Sussex County municipalities and non-profit organizations are also operating, constructing or planning their own greenways. Notable examples include the following:

- Broadkill River Canoe Trail a canoe trail between Milton and the Nature Conservancy's McCabe Preserve made possible by a joint venture between the Town of Milton and the Nature Conservancy
- Edward H. McCabe Preserve and Greenway Trail contains three miles of hiking trails on a property in Milton owned and maintained by the Nature Conservancy
- Abbott's Mill Nature Center contains three miles of trails at Abbott's Mill in Milford
- Mispillion River Walk a one-mile walk in the City of Milford
- Governors Walk located along the Broadkill River in the downtown district of Milton



- Broad Creek Riverwalk located in the Town of Laurel
- Seaford River Walk located on the Nanticoke River in Seaford
- City of Lewes greenway network

6.6 DELAWARE STATE COMPREHENSIVE OUTDOOR RECREATION PLAN (SCORP)

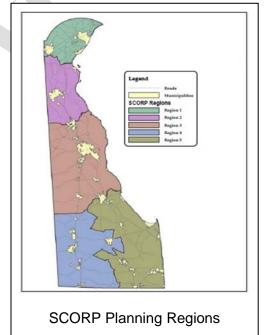
DNREC's Division of Parks and Recreation updates the Delaware State Comprehensive Outdoor Recreation Plan (SCORP) every five years. By law, this plan maintains Delaware's eligibility to receive grants through the Federal Land and Water Conservation Fund. It also assists in setting spending priorities for a similar State recreation funding source called the Delaware Conservation Trust Fund.

The SCORP has a statewide focus and includes extensive inventory data and utilizes a public survey to help measure outdoor recreation preferences. Consequently, recreation resources, needs and goals are identified on a regional basis rather than at the municipal level.

Sussex County includes two of the SCORP's five planning areas: Region 4 in western Sussex and Region 5 in eastern Sussex. According to the 2013 SCORP, Region 4 had 27,304 acres of publicly accessible outdoor recreation and conservation lands. Region 5 had 55,106 acres of publicly accessible outdoor recreation and conservation lands.

Among other findings, the 2013 SCORP reported from the public survey and research results that the top recreation activities engaged in by respondents' households included:

Region 4 respondents: Walking/jogging (73 percent), Swimming (pool) (64 percent),
 Gardening (62 percent), Swimming (beach) (58 percent), and Picnicking (58 percent).



Region 5 respondents: Walking/jogging (78
percent), Gardening (68 percent), Swimming (beach) (67 percent), Swimming (pool) (59
percent).

Delaware's SCORP contains many recommendations on what elected officials and other public policy makers can do to: a) direct more investment toward public recreation; and b) promote



healthier and more active lifestyles. The State is actively working with key partners to implement the goals of the SCORP through new and existing partnerships, growing collaborations and adhoc implementation teams.

6.7 RECREATION AND OPEN SPACE STRATEGIES

Below is a list of goals, objectives, and strategies for Sussex County's Recreation and Open Space Element:

Goal 6.1: Enhance the quality of life of County residents and visitors by sustaining and encouraging recreation and open space opportunities in the County.

Objective 6.1.1 Continue the County's role in parks, recreation, and open space planning in Sussex County.

Strategy 6.1.1.1 Evaluate if the establishment of a County Parks and Recreation Department or designation of existing staff to lead County parks, recreation, and open space planning efforts is desirable.

Strategy 6.1.1.2 Evaluate opportunities to provide financial support in the establishment of public parks, recreation centers, or trails.

Strategy 6.1.1.3 Evaluate the possibilities of public-private partnerships for recreation opportunities.

Objective 6.1.2 Continue support of and increase coordination with the State and other entities to identify opportunities to increase public recreation lands and facilities in Sussex County.

Strategy 6.1.2.1 Keep providing selected and coordinated grant assistance to selected non-profit recreation providers that help meet high priority public recreation needs.

Strategy 6.1.2.2 Periodically re-evaluate the possibility of becoming an active financial partner in establishing a public park, building an indoor recreation complex, or constructing a related recreation endeavor, such as a greenway trail. Council should evaluate these opportunities on a case-by case basis as they may arise in the future.



- **Strategy 6.1.2.3** Continue working with DNREC and other state agencies to ensure the State continues to add to the supply of active and passive recreation land and facilities in Sussex County.
- **Strategy 6.1.2.4** Support and partner with municipalities and school districts to create and enhance parks and recreation facilities.
- **Objective 6.1.3** Increase the network of greenways and trails in the County.
 - **Strategy 6.1.3.1** Continue to support the State, local municipalities, and private non-profit organizations on their greenway and trail goals.
- **Objective 6.1.4** Maintain and improve public access to parks and recreation facilities, including coastal areas and inland waterways.
 - **Strategy 6.1.4.1** Require that recreation lands open to the public that are in new developments be protected by easements.

Goal 6.2: Expand and improve the open space system of the County.

- Objective 6.2.1 Encourage the preservation of open space parcels.
 - **Strategy 6.2.1.1** Evaluate the County density bonus program to determine ways to better encourage the use of the program.
 - **Strategy 6.2.1.2** Consider the expansion of the density bonus program into other districts in order to obtain funds for open space and natural resource preservation.
 - **Strategy 6.2.1.3** Consider developing a program for installation of signage at permanently preserved open space tracts acknowledging that the County has preserved the land.
 - **Strategy 6.2.1.4** Consider County-level financing mechanisms for open space preservation and management to leverage state and federal dollars.
- **Objective 6.2.2** Encourage development that protects open space in new developments.
 - **Strategy 6.2.2.1** Strengthen County development regulations to ensure that open space dedicated by developers contains contiguous open space.
- **Objective 6.2.3** Continue work with resource protection programs, federal and state agencies, and other organizations to target and preserve open space.
 - **Strategy 6.2.3.1** Continue to facilitate the preservation of more undeveloped land. This should include working with the Sussex County Land Trust and other organization's efforts to preserve and expand open space access across the County.



Strategy 6.2.3.2 Continue and expand partnerships with organizations to manage open space and recreation properties such as the James Farm.





Chapter 7. UTILITIES

<u>Utilities Vision</u>: To ensure that safe, reliable, and economical utility services are available to Sussex County residents and businesses.

7.1 OVERVIEW

This chapter is an overview of how utilities are provided in Sussex County. The chapter focuses on both those utilities that the County is responsible for owning, operating, and funding, as well as utilities provided by public and private entities. Goals, objectives, and strategies are included on how the County and others can improve and expand these vital services in the future.

7.2 WATER SUPPLY

7.2.1 Water Supply Overview

Sussex County depends completely on groundwater supplies and wells for its water. Aquifers in the subsurface of the County provide groundwater to meet these water demands.

It is critical to protect the quality of groundwater and to promote the recharge of water into the underground water table. The Delaware Department of Natural Resources and Environmental Control (DNREC) regulates all water treatment facilities and water withdrawals. Aspects of water distribution, including rates that can be charged, are regulated by the Delaware Public Service Commission (PSC).

7.2.2 Water Supply Providers

The PSC reviews and approves applications to grant and revoke Certificates of Public Convenience and Necessity (CPCN) for water utilities who wish to expand a service territory. The PSC has granted CPCNs since 2001 and encourages compact and contiguous service territories to provide efficient delivery of drinking water without redundancy in infrastructure.

Figure 7.2-1 shows water service areas in Sussex County that hold CPCNs for central water systems in water supply service areas. These central systems provide water to most areas of concentrated population in Sussex County. Most homes and businesses in the County's more rural vicinities get their potable water from individual on-site wells. Table 7.2-2 shows the number of wells by type. The largest number of wells is used for standard domestic water purposes.

Table 7.2-2	Number of Wells by T	ype
	Well Type	Total
Agricultural - Stan	dard	5,301
Agricultural - With	5,489	
Aquifer Storage &	1	
Dewater - Standa	1,718	
Domestic - Standa	45,186	



Table 7.2-2 Number of Wells by Type					
Well Type	Total				
Fire Protection - Public					
Fire Protection - Standard					
Geothermal - Closed Loop					
Geothermal - Direct Exchange					
Geothermal - Recharge					
Geothermal - Supply	769				
Industrial - Standard					
Irrigation - Standard					
Monitor - Direct Push					
Monitor - Standard					
Monitor - Zone of Interest					
Observation - Standard					
Other - Standard					
Public - Miscellaneous					
Public - Standard					
Remediation I - Injection					
Remediation R - Recovery					
Soil Borings - Standard					
Well Construction - Standard					
Grand Total					

Source: DNREC Division of Water

Private companies provide almost all water to those parts of Sussex County served by central water systems. The largest of these service areas belongs to Tidewater Utilities, Inc. It includes areas west of Rehoboth and along the Route 1 commercial corridor, adjacent areas along Route 24 and Camp Arrowhead Road, areas west of Delmar, the Angola area, and areas along Orchard Road/Route 5. Tidewater Utilities also serves numerous scattered developments. The second largest private water provider in Sussex County is Artesian Water Company. Its largest service areas are along the Route 9 corridor east of Georgetown, South Bethany, the Route 5 corridor south of Route 9, and the Roxana Area east of Selbyville.

Other large private water companies operating in Sussex County include Long Neck Water Company (which serves almost all of Long Neck), Sussex Shores Water Company (which serves areas north of Bethany Beach), J.H. Wilkerson & Son, Inc. (which serves Broadkill Beach and Prime Hook), and Slaughter Beach Water Co. (which serves the town of Slaughter Beach).

Dewey Beach and the Delaware Coastal Business Park are the only areas in the County served by the water system that is owned and operated by Sussex County. However, the County can be petitioned per Delaware Code to create additional central water service areas. Such petitions



have been received for portions of the Winding Creek Village community in the Herring Creek area.

Bethany Beach, Blades, Bridgeville, Dagsboro, Delmar, Frankford, Georgetown, Greenwood, Laurel, Lewes Board of Public Works, Milford, Millsboro, Milton, Rehoboth Beach, Seaford, and Selbyville operate municipal water systems. In many cases, these systems extend outside of the municipality's limits. To meet the expanding demand, many municipal water suppliers are exploring new public supply well sites to provide additional capacity.

There also are many scattered private water systems, such as systems serving scattered businesses, industries, and campgrounds. Many of these systems are classified as "non-community" systems as they serve non-residential individuals and may not provide water service every day of the year. Community water systems are those that serve residents year-round.

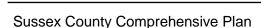
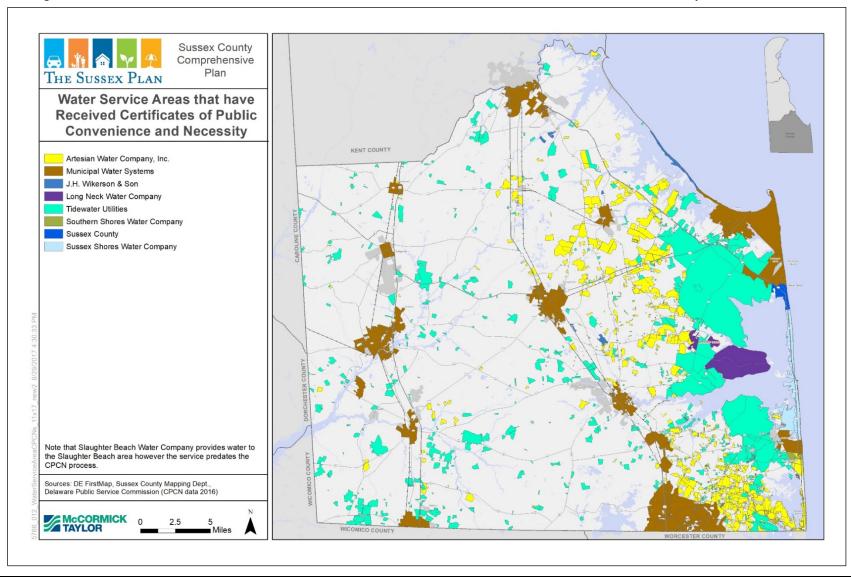




Figure 7.2-1 Water Service Areas that have Received Certificates of Public Convenience and Necessity





7.2.3 Water Supply Protection

DNREC oversees the state's Source Water Assessment and Protection Program (SWAPP), which is primarily aimed at protecting water supplies from contamination. Central wellhead protection areas and "excellent" groundwater recharge areas have been designated by DNREC (Figure 7.2-2). A wellhead protection area is the surface and subsurface area surrounding a public water supply well through which contaminants could reach the well. An excellent groundwater recharge area is an area with very permeable soils where recharge can occur quickly. Approximately 1.54 percent of the County's land area is classified as wellhead protection area, and eight percent is classified as an excellent recharge area (DNREC, 2013).

Under DNREC regulations, assessments have been completed of the vulnerability from contamination of each water system. DNREC provides assessment reports to water systems and the Delaware Health and Social Services Department's Office of Drinking Water.

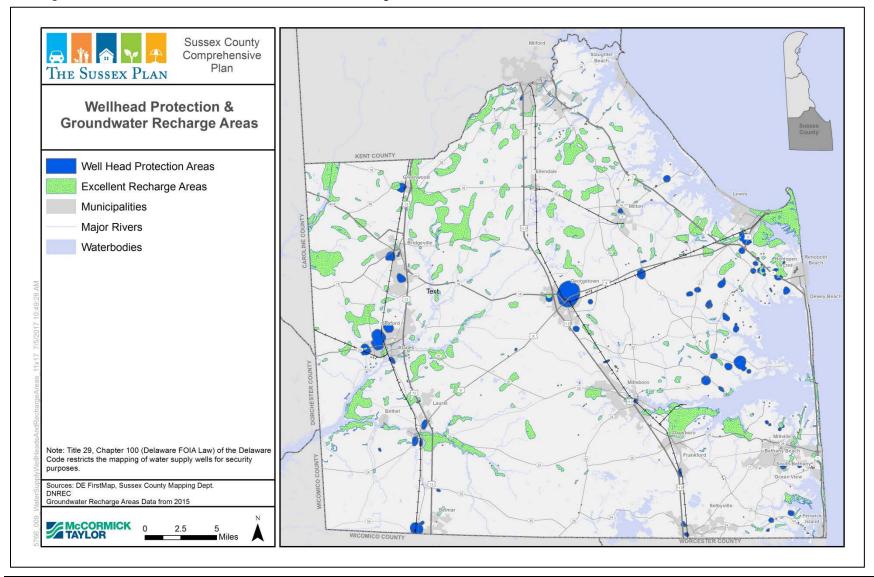
Sussex County adopted a Source Water Protection Ordinance in 2008 to minimize the impact of land use activities on the groundwater supply and reduce the risk of contamination of excellent groundwater recharge areas and wellhead protection areas that are the source of drinking water throughout the County. The ordinance was prepared to meet a requirement of the State Source Water Protection Law of 2001. As the County ordinance was adopted nearly ten years ago and has been actively utilized in land use decision-making since then, the County is considering a review of the existing ordinance to determine if modifications are needed to further improve implementation of the ordinance.

One of the best ways to avoid contamination of important water supply wells is to avoid intensive industrial and commercial development that uses hazardous substances in adjacent areas. Once toxic substances enter an aquifer, they can be extremely difficult to contain the contamination and to remove the substances from the water. Where hazardous materials are stored or handled, there should be measures installed (such as impervious surfaces surrounded by curbing) to contain any spills before they are able to migrate offsite and infiltrate local water supplies. Persons transporting or handling hazardous materials should be urged to contact authorities as soon as a possible hazard may arise, and while the hazard can still be contained.

The ideal type of land use around water supply wells is either preserved open space or low density residential development. Ideally, the amount of impervious coverage around major water supply wells would be minimized to allow the groundwater to be recharged. Agricultural uses are beneficial for groundwater recharge as the water used for irrigation returns to the ground. However, if there is not proper management of agricultural runoff, nitrate levels can increase in local water supplies, posing a potential health hazard. Persons who operate agricultural, livestock or poultry uses near water supply wells should be urged to cooperate with the Sussex Conservation District to use proper nutrient management and other measures to minimize water pollution.



Figure 7.2-2 Wellhead Protection & Excellent Recharge Areas





7.2.4 Fire Protection

The Delaware Office of the State Fire Marshal reviews proposed developments to make sure they comply with State Fire Prevention Regulations. Among other provisions, those regulations require that adequate fire flow and pressure are available for firefighting as part of central water systems. It is difficult to provide adequate water supplies for firefighting within smaller water systems.

7.3 WASTEWATER

7.3.1 Overview

Public wastewater planning in Sussex County is overseen by the Sussex County Engineering Department. Title 9, Chapters 65 and 67 of the Delaware Code addresses public sewer and water services in Sussex County. Those regulations provide Sussex County with the authority to establish sanitary sewer areas. In many cases, under those regulations, a referendum is held to ask affected property owners whether they wish to be served by County sewage service.

The County Engineering Department, under current County code, utilizes a map of primary and secondary sewer planning areas in planning and decision making. As part of this Comprehensive Plan process, the Engineering Department is pursuing a new approach to wastewater planning and has divided the County into Planning Tiers. The following text describes the tiers, and a map showing the locations of these tiers is available at the County Engineering Office. The County will submit this tier map to the Delaware Public Service Commission and work to amend Chapter 110 of County Code to reflect the new sewer service tier system following adoption of this Comprehensive Plan.

<u>Tier 1</u> – Sussex County Unified Sanitary Sewer District

 Areas currently served under the Unified County Sanitary Sewer District where all future development is also to be served by the County.

<u>Tier 2</u> – Sussex County Planning Areas

- Any parcel or parcels immediately adjacent to an existing sanitary sewer area boundary capable of annexation.
- Areas where the County has plans to install central sewer to serve existing and future development.

Tier 3 – Coordinated CPCN Areas

 Areas where multiple existing CPCNs have been issued to various private wastewater utilities as well as tracts with County service. This area will require coordination between County and the private wastewater utilities. A County concurrence letter is required for new CPCNs.

Tier 4 - System Optional Areas



Areas where a central utility is desired for any future development, however individual
on-site systems will be permitted. The area would primarily be served by Private
Wastewater Utilities, requiring CPCNs to be issued. The County requests notification
of application for new CPCNs.

Tier 5 - Regulated On-Site Areas

- Areas that have been previously subdivided and open to DNREC-approved individually-owned on-site systems.
- Areas where the environmental benefit of centralized sewer does not outweigh the
 cost to construct the infrastructure. These areas are open to DNREC-approved
 individually-owned on-site systems, or central systems exclusively served by private
 utilities with private funding.

Areas located in a municipality's growth and annexation area and adjacent to a Sussex County Sanitary Sewer District are up for discussion and possible coordination between the County and the municipality.

In addition to areas served directly by the County, most cities and towns in Sussex County operate their own sewage treatment systems. Beyond County and municipal sewer treatment providers, private companies (such as, but not limited to, Artesian and Tidewater), provide wastewater treatment to individual communities in several Sussex County vicinities.

7.3.2 County Wastewater Services

The following information mainly addresses sewer services provided by the County. The County's sewer service continues to grow each year, with a 1.3 percent increase in Equivalent Dwelling Units (EDUs) for 2017, and an additional 1.8 percent is projected for 2018. An EDU is a term used to express the load-producing effects on the sewer system caused by one dwelling unit. Table 7.3-1 shows the EDUs and percentage increases for all of the County water and sanitary sewer areas since 2013.

Table	e 7.3-1		DUs ar		centage 13	Increa	ses fo	or all Su	ıssex C	County	Water	and Sa	nitary	Sewer
	2013			2014			2015			2016			2017	
TOTAL EDUS	NEW EDUS	percent INCR.												
68,293	2,475	3.7	69,841	1,547	2.3	71,355	1,515	2.2	73,136	1,781	2.5	74,646	1,509	2.1

Source: Sussex County Engineering Department



7.3.2.2 Inland Bays Region

In June 2006, the draft Inland Bays Planning Area Wastewater Facilities Plan and Environmental Assessment (referred to hereafter as the "Inland Bays Wastewater Study") was completed. This area features the following treatment facilities and sewer areas of the Unified Sanitary Sewer District:

- The Inland Bays Regional Wastewater Facility (IBRWF) serves the Long Neck, Oak Orchard, and Angola sewer areas, and has been in operation since April 1992. The facility and its spray fields are located on County-owned lands on the east side of Townsend Road, north of Inland Bay Road. Existing or planned spray fields surround the facility on all sides, with the largest areas to the west. The facility is proposed to serve Goslee Creek, Mulberry Knoll, Chapel Branch, and Herring Creek areas in the future.
- The Wolfe Neck Regional Wastewater Facility serves the West Rehoboth area, which includes a significant percentage of the new development in the eastern part of the County, including areas along both sides of the Route 1 corridor. The Wolfe Neck system uses County-owned land at the eastern end of Wolfe Neck Road for treatment, and State-owned land under a lease arrangement for application of treated effluent. In addition, the County can divert wastewater via pump station #210 to the IBRWF.
- The City of Rehoboth Beach Wastewater Facility serves the Dewey Beach and Henlopen Acres areas as well as the City of Rehoboth Beach, all of which is outside of the Inland Bays Planning Area.

Wastewater studies have projected the following build-out design EDUs for the following areas, including both existing and projected development (Table 7.3-2).

Table 7.3-2 Inland Bays Areas Build-Out Design Equivalent Dwelling Units					
Area	EDUs				
West Rehoboth Area					
(Areas on both sides of Route 1, including land on Route 9 west of Route	45.242				
1, and lands along Old Landing Road and Bald Eagle Road; approximately	45,242				
21,259 of these EDUs are already connected to the sewage system.)					
Long Neck Area					
(Areas north and south of Long Neck Road, most of which are east of	15 204				
Route 24, including the Pot-Nets developments; approximately 8,200 of	15,204				
these EDUs are already connected to the sewage system.)					
Northern West Rehoboth Area	1 022				
(Northwest of the intersection of Routes 1 and 9, southwest of Lewes)	1,823				
Goslee Creek Study Area	3,842				



Table 7.3-2 Inland Bays Areas Build-Out Design Equivale	nt Dwelling Units			
Area	EDUs			
(Areas north of Love Creek, and south of the current sewage service				
area, including areas on both sides of Route 24, such as areas along				
Camp Arrowhead Road.)				
Angola Neck Area				
(Areas south of Love Creek and north of Herring Creek, most of which				
are east of Route 24.)	6,279			
1,539 of these EDUs are already connected to the sewage system.				
Angola North construction will bring on an additional 250 existing EDUs.				
Herring Creek Area				
(Areas south of Herring Creek, most of which are east of Route 24.)	4,987			
713 existing EDUs will connect to the sewage system upon completion of	4,367			
construction.				
Oak Orchard Area				
(Areas along Oak Orchard Road, north of Indian River.)	2,498			
1,735 of these EDUs are already connected to the sewage system.				
Oak Orchard Expansion Area				
(Areas north of the Indian River, most of which are south of Route 24,	5,739			
east of the Mountaire Farms chicken plant, and along Oak Orchard	3,739			
Road.)				
Johnson's Corner Area				
(Areas along Zion Church Road, south of Deer Run Road to Lighthouse	2,843			
Road.)	2,043			
497 EDUs are already connected to the sewage system				

Source: Sussex County Engineering Department

The Inland Bays Wastewater Study projected that \$175 million of improvements are needed to serve the Long Neck, Northern West Rehoboth Expansion, Goslee Creek, Angola Neck, Herring Creek and Oak Orchard Expansions. The study found that five existing sewer lines and 14 existing pump stations are already at or near capacity. Additional lines and pumping stations will need improvements to handle flows by 2025. The study projected that \$35 million is needed to address the priorities in collection and conveyance.

The study projected that the 117,000 EDUs could be allowed in the Inland Bays Planning Area under current zoning, including approximately 15,000 existing EDUs already connected. The build-out design is for 75 percent, assuming some of the land remains in open space. That build-out design is projected to generate total wastewater flows in the peak summer month of 20 million gallons per day (mgd).

Approximately half of that flow would be part of the Wolfe Neck Treatment Facility service area. The Wolfe Neck treatment plant was designed for an average monthly capacity of 4.0 mgd during the summer months of May through September and 2.23 mgd during the winter months. The average annual design disposal capacity is 3.1 mgd. The existing Wolfe Neck facility uses 285 acres of spray fields.



The Inland Bays facility is in the design phase to expand the treatment and disposal capacity from 2.0 mgd to 4.0 mgd. The study suggests diverting some future flows from West Rehoboth to the Inland Bays facility as it is less constrained by the availability of land. In 2004, Sussex County purchased 2,000 acres near the existing facility for spray expansion. The report estimates that the existing and new fields could provide capacity for 13.1 mgd, consistent with the build-out peak summer design flow.

The study also states that disposal capacity could be increased by converting spray irrigation sites to rapid infiltration basins, with the proper permit modifications approved by DNREC.

7.3.2.3 South Coastal Region

The following information is based on the 2005 South Coastal Planning Area Study for Wastewater. The South Coastal Planning Area includes the following existing sanitary sewer areas: Bethany Beach, North Bethany, Miller Creek, South Ocean View, Johnson's Corner, Sea County, Bayview Estates, South Bethany, Fenwick Island, Holts Landing, Ocean View, and Cedar Neck. Several smaller community sewer systems were abandoned as the South Coastal system was expanded over the years.

Service is scheduled for the following sanitary sewer areas:

• Portions of the Beaver Dam Area (part of Central Service Area, including areas west and southwest of Millville, northwest of Central Avenue and east of Powell Farm Road).

Future sewer service is anticipated for the following proposed areas:

- Bayard (which is generally east of Bayard Road, north of Dirickson Creek and west of Assawoman Wildlife Refuge). Much of this area will be annexed into the Miller Creek Area.
- West Fenwick (which is generally east of Dickerson Road and north of Route 54). There is a current project to extend sewer service further west to the Williamsville area.
- Vines Creek (which is generally north of Route 26, south of the Indian River, west of Blackwater Creek).

The study found that the total build-out for the South Coastal area under current zoning would be approximately 80,000 EDUs, including approximately 33,000 existing EDUs that are already connected to the system.

In 2007, a referendum was passed to establish the Johnson's Corner Sanitary Sewer District which was completed at a cost of \$14 million. All South Coastal cost estimates were provided in 2005 dollars. The study estimated that \$163 million in conveyance and collection expenses would be needed to serve the proposed sewer areas, not including treatment costs. Within existing sewer areas, conveyance improvements are projected to cost \$9.2 million.



Treatment capacity at the South Coastal Regional Wastewater Facility, located on Beaver Dam Road was expanded in 2007. However, the study recommends eventually expanding capacity further since peak flows are being impacted by seasonal increases in demand.

7.3.2.4 Dagsboro/Frankford Region

The following information is based upon the December 2006 Dagsboro/Frankford Sewer Planning Area Study. The area includes the towns of Dagsboro and Frankford and areas surrounding the towns. This area also includes large areas east of Millsboro south of the Indian River. The northern boundary of the planning area is the Indian River. The planning area includes lands west of the Vines Creek, and east of Route 113 and Thorogoods Road. The southern border of this planning area is generally along Omar Road and Lazy Lagoon Road. Wastewater is collected and transported to the Piney Neck Regional Wastewater Facility near Piney Neck Road.

This facility only has capacity for 200,000 gallons per day and would need an expansion to handle significant growth. There currently are approximately 1,300 EDUs connected. The study found that the build-out design would be 25,000 EDUs based upon current zoning. The study projected that there could be 6,000 EDUs connected to the system by 2025, however no such growth patterns have emerged yet.

7.3.2.5 Blades Area Region

The following is based on the November 2006 plan for the Blades Sewer Planning Area. The current Blades Sanitary Sewer Area uses a County-owned collection system. The effluent is then conveyed to Seaford's treatment plant, which is along north side of the Nanticoke River at southwest corner of the City. Existing flows from Blades are approximately 65,000 gallons per day.

There are 360 acres in Blades' Annexation Area, which was established in the town's 2002 comprehensive plan. That annexation area includes areas close to the town's borders along the south side of the Nanticoke River. The Blades Planning Area Study considered a potential service area of 14,800 acres. This was divided into Study Area I, which includes large areas southwest, south and east of Blades, and Study Area II, which includes areas south and east of Study Area I. Part of Study Area II is adjacent to the northern edge of the Annexation Area for the Town of Laurel.

If the Annexation Area and Study Area I would be built-out, based on current zoning, the study projects that the sewer flow could be up to 7,000 EDUs by 2030.

7.3.3 Sewer Service by Municipalities

Most of Sussex County's cities and towns operate their own sewer systems, including Seaford, Georgetown, Rehoboth Beach, Laurel, Lewes Board of Public Works, Millsboro, Bridgeville, Delmar, Greenwood, and Selbyville. Milford is connected to a system owned by Kent County. Information on the sewer services provided by the towns and cities is provided within individual municipal comprehensive plans.



Many of the municipalities need to invest millions of dollars into their sewer systems to expand treatment and provide additional spray fields. For example, Rehoboth Beach is in the process of fast-tracking improvements at the city's wastewater treatment plant, including replacing two clarifiers and installing a new filtration system, as well as beginning work on an ocean outfall project. In many cases, a large portion of costs for municipal system upgrades are being funded by new developments, including connection fees, as well as low interest loans and grants from state and federal agencies.

The Bridgeville Wastewater Treatment Plant is in need of \$16 million to \$18 million in upgrades in order to comply with a 2016 Environmental Protection Agency consent agreement on alleged Clean Water Act violations (MacArthur, 2017). Studies are currently underway to consider whether any of the sewer systems along the Route 13 corridor in the western part of the County should be consolidated, and a larger sewer service area be established. That could possibly involve the City of Seaford serving as a regional treatment plant for Blades, Greenwood, and Bridgeville as well as portions of the unincorporated County between the municipalities.

Sewer from the Ellendale area of the Unified Sanitary Sewer District is being conveyed to Georgetown for treatment and disposal, but future connections to a regional system on the west side of the County could be considered. In addition, the County owns and operates a collection system at the Airport.

Sussex County is also pursuing interconnection with a number of municipal systems allowing the transfer of wastewater to the treatment facility with the most available capacity.

7.3.4 Private Sewer Providers

Private utility companies are considered a viable option for wastewater treatment in areas where County or municipal services are non-existent or unplanned. Artesian Wastewater Management, Inc. and Tidewater Environmental Services, Inc. mainly provide sewer services for individual developments that are along Route 9 east of Georgetown or along the Routes 5, 24 and 26 corridors in the eastern part of the County. Each company is also planning to serve many new developments.

In addition to Artesian and Tidewater, other private providers of sewer service include Bass Properties, Inc., the Excel Property, Moore Grant Sanitation, Inc., Inland Bays Preservation Company, Oak Crest Farms, Wastewater Utilities, Inc., and YMG Corporation. There also are wastewater treatment facilities serving major industries, such as Perdue Farms, Inc. in Georgetown, and Mountaire Farms east of Millsboro.

7.3.5 On-Lot Systems

Many scattered buildings throughout the County use on-lot septic systems, usually with a drain field. DNREC regulates holding tanks and requires annual inspections are performed, which include a review of pump-out records. A number of properties along the Inland Bays use holding tanks, which are only intended to be temporary and which require regular pumping.



7.3.6 Private Sewer Treatment Service in Public Sewer Areas

Tidewater Environmental Services, Inc. and Artesian Wastewater Management, Inc. have been regularly expanding sewer services in Sussex County, as new developments are proposed and built. Service areas of private companies are mainly under the oversight of the PSC who issues CPCNs to private providers. Figure 7.3-1 shows wastewater service areas that have received CPCNs.

CPCNs are typically applied for after a majority of affected property owners in a specific area sign, or the owner of a large sub-dividable area petitions a private company to provide service to that area or parcel. Sussex County works closely with private providers to connect private systems to public treatment plants, where possible.

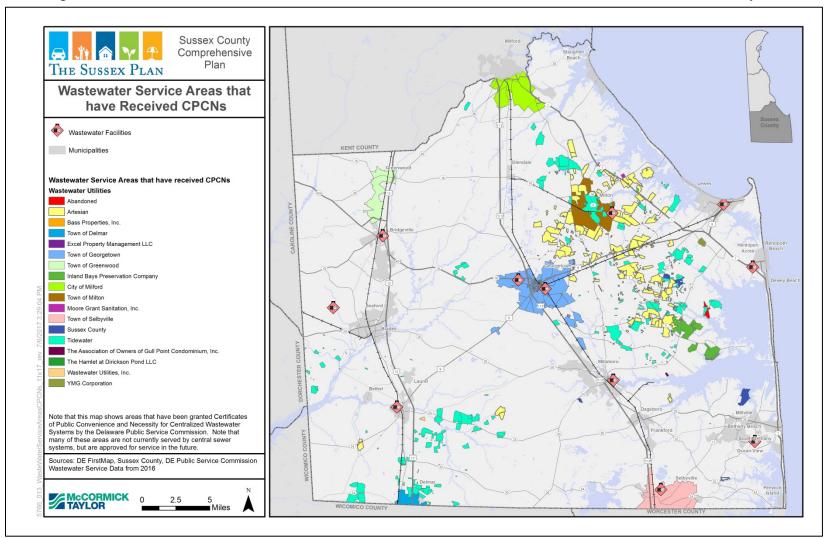
Delaware law gives towns and cities the authority to pre-approve any private utility service within its borders. However, that control does not extend to future annexation areas located outside of current municipal borders. Much of Sussex County's new development is located in or near these annexation areas, rather than within municipal borders.

The primary concern for Sussex County is to ensure that its own county-operated sewer treatment services can be efficiently provided to existing developments suffering from inadequate community sewer facilities and/or failing on-site septic systems. The County has taken on tens of millions of dollars of debt to extend county-operated service to these areas. This is being done to protect the water quality of the inland bays and other waterways and meet state mandates to avoid or eliminate discharges of treated effluent into the Inland Bays. These mandates have required large expenditures to establish land application systems for the effluent disposal after effluent has passed through a treatment plant.

To make it cost-effective to provide sewer service to existing development, it is often necessary to serve new development in the same system. The new development often provides the initial capital to lower connection costs and a larger customer base to keep usage fees moderate for existing homeowners. However, if the new development is served as part of a separate private system, it must be cost-effective to do so. Designs should: a. be easily connected to surrounding vacant parcels; and b. be connected to surrounding developed parcels. There also may be major inefficiencies if the private system is located between two existing areas that need service. This results in a need to build long service line extensions without any customers along those lines to pay for those extensions. In these cases, it is also difficult to efficiently serve individual lots between subdivisions.



Figure 7.3-1 Wastewater Service Areas that have Received Certificates of Public Convenience and Necessity





7.4 ENERGY

7.4.1 Electric

While its natural beauty and amenities have made Sussex County a desirable place to live, the availability of reasonably priced electricity to power home heating and air conditioning units makes the County a more comfortable place to live during the winter and summer months. It is also critical in powering businesses and industries across the County.

In 1999, the energy industry in Delaware was restructured by the General Assembly to allow electric consumers to choose an alternate energy supplier (Delaware Division of the Public Advocate, 2017). The PSC maintains a list of certified electric suppliers on its website as a resource for consumers looking to switch suppliers.

Delmarva Power & Light Company, Inc. is the only electric distribution company regulated by the PSC. It provides electric to over 500,000 customers in Delaware and Maryland.

The PSC does not regulate municipal electric providers in Delaware. Lewes, Milford, and Seaford operate their own electric utility companies in Sussex County.

Additionally, the Delaware Electric Cooperative (Co-Op) is not regulated by the PSC. Delaware Electric Co-Op serves over 93,000 homes, businesses and farms in Kent and Sussex Counties, providing power to more than 200,000 people.

7.4.2 Natural Gas

Natural gas consumption in Sussex County is growing. Residential customers can use natural gas for home and water heating, cooking, clothes drying and other applications. Small to medium enterprises such as retail shops and restaurants can use natural gas for heating or cooking. Industrial facilities use natural gas for operational processes as well as for space heating, steam and electric (energy) production.

An economic driver for development is the availability of a variety of energy resources. Sussex County is fortunate to have a natural gas transmission pipeline located within its borders. It is owned and operated by Eastern Shore Natural Gas Company, a subsidiary of Chesapeake Utilities (Chesapeake). Chesapeake provides natural gas service to over 7,000 customers in Sussex County. Chesapeake's existing and planned service areas are shown on Figure 7.4-1.

Planned improvements to the pipeline delivery system in Sussex County include 1.6 miles of pipeline looping (parallel pipeline) north of Seaford, 5.1 miles of pipeline looping in Laurel, and a 17-mile expansion between Seaford and Millsboro. In addition, the improvements include two new pressure control stations located in Delmar and Millsboro. This added infrastructure will help to support the natural gas system in the southern and western part of the County.

Expanding natural gas infrastructure to areas in the County where it does not currently exist requires a critical mass of anticipated consumption before gas mains can be installed. To reach



that critical mass, it will take partnerships between the government and the private sector. Working together with the natural gas utility, the County can proactively support infrastructure expansion (in the form of natural gas mains) into key growth areas. In addition, the County will assess the potential for future land use – including future commercial and industrial areas – based on the presence of, or potential connections to, a natural gas utility. This can be accomplished by proactively forming partnerships with existing utilities, industry, and commercial/residential developers to coordinate initiatives, while furthering strategies outlined in this Comprehensive Plan.

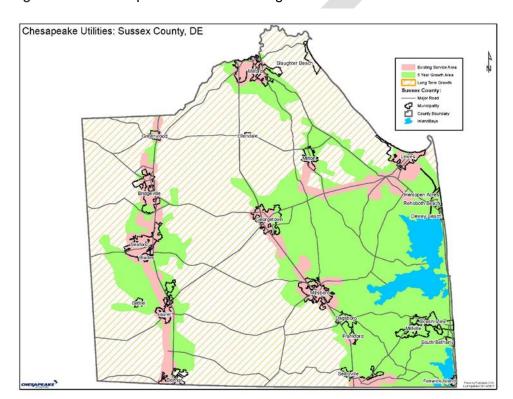


Figure 7.4-1 Chesapeake Utilities Existing and Planned Natural Gas Service

7.4.3 Renewable Energy

Renewable energy sources in Delaware currently include a variety of technologies such as small scale solar photovoltaics (PV) and geothermal units, commercial-scale solar arrays, land-based wind turbines for farms and industries, and emerging technologies such as offshore wind energy for utility-scale electricity off the Delaware coast. Some residents of Sussex County are choosing domestic renewable sources of electricity, such as solar PVs on rooftops and geothermal for heating and cooling systems. In addition, some businesses, schools, and institutions are choosing renewables for their energy needs. Sussex County Code currently contains provisions that regulate residential and business solar and wind energy activities, in order to enable renewable energy projects that are compatible with existing land uses.



Delaware requires retail electricity suppliers to generate 25 percent of the electricity sold in the state from renewable energy resources, with at least 3.5 percent from solar PV, by mid-2026. When electricity providers, residents, businesses, and municipalities in the County purchase or own in-state renewable energy projects it can help toward meeting that goal. The County should encourage the development of renewable energy from a utility-level standpoint in order to realize the potential for more prevalent uses of renewable energy across the state as suppliers work to meet their future renewable energy goals.

7.5 TELECOMMUNICATIONS

Telecommunications is the exchange of information over long distances by electronic means. It can include voice, data, and video transmission. It is often associated with phone, internet, and television services.

The PSC can grant franchises to cable system operators providing service in unincorporated areas of the state. Satellite providers are not regulated by the PSC.

Verizon, Comcast, and Mediacom are the main telecommunication providers operating in Sussex County, and the service area for each provider varies. Nevertheless, there are gaps in service, particularly in the rural areas of the County. In particular, broadband technologies that enable high-speed internet connections are limited in the rural parts of the County. High-speed internet has become critical for residents, schools, farms, businesses, and governments to operate, and as discussed in the Economic Development Chapter of this Comprehensive Plan, is an important driver of economic development in the County. Similar to natural gas service expansion, a critical mass of population and businesses is necessary for private sector investment in broadband infrastructure.

In the mid-2000's, a broadband working group was formed in Sussex County to identify ways to solve the connection issues in the County. The University of Delaware and the Sussex Economic Development Action Committee, Inc. (SEDAC) also worked with the group to raise awareness for the demand for broadband infrastructure and enhanced internet services in the County (University of Delaware, 2017). In 2014, Governor Jack Markell announced that making rural expansion of broadband was a priority in Delaware and set aside \$2 million for companies that had plans to use new fiber lines to reach underserved areas (Hoey, 2016). Following this, Sussex County government took steps to be the large anchor "company" to pave the way for installation of broadband infrastructure. The County hired a company (Broad Valley Micro Fiber Networks, Inc.) to install a 10-mile fiber-optic network "ring" that weaves around and through Georgetown. The ring was completed in 2016 and the County has plans to branch into other areas of the County from the ring, the 36 miles of existing Lightower fiber networks running from Georgetown to Seaford and Georgetown to Lewes, and the Lightower 175 mile network expansion completed in 2016 that stretches from Kent County through Milford and Georgetown to Millsboro. Sussex County's FY 2018 budget includes \$1 million for a pilot project to install fiber optic cable to expand high-speed internet to rural parts of Sussex. The Delaware Department of Technology and



Information (DTI) also has plans to connect 211 schools and school administration centers throughout the state (Hoey, 2016).

However, installing fiber lines to reach the doors of homes and businesses can be expensive, even when connecting to a nearby network. Sussex County is exploring the use of wireless, microwave broadband access by working with the wireless technology company CONXX. The County hired CONXX to design and install a microwave system to replace legacy copper landline links between communications towers, wastewater treatment operations centers, and field equipment (CONXX, 2016). Sussex County's FY 18 budget includes \$110,000 set aside for the CONXX Wireless Phase 3 and 4 projects to extend wireless network coverage to additional county facilities including the Seaford and Selbyville areas to provide a lower-cost and more reliable network infrastructure (Sussex County, 2017).

The County recognizes the importance of reliable telecommunication services to its residents, schools, farms, businesses, and government operations and will continue to encourage the expansion of telecommunications services as technology, market demand, and return on investment allows. The County is also taking into consideration the presence of, or potential connections to, telecommunications services when evaluating potential future land uses. In addition, in order to facilitate the expansion of these services, the County will revisit code to determine ways to streamline the process for approval and construction of telecommunications (including cell tower) infrastructure.

7.6 STORMWATER MANAGEMENT

Stormwater runoff occurs when water from rain or snowmelt flows across a land surface. Impervious surfaces such as rooftops, streets, and parking lots prevent the water from soaking into the ground and increase runoff volume created during storm events, thereby increasing the potential for flooding. Stormwater management is the act of managing this surface runoff by engineering land development to better convey and treat stormwater. In engineering site plans for new development, stormwater conveyance and detention or retention systems are designed to move stormwater away from buildings and impervious surfaces and hold it for a period of time in basin or other stormwater measure before it infiltrates into the ground or is released to a stream.

The Sussex Conservation District is the delegated agency in Sussex County for the administration of Delaware's Sediment and Stormwater Regulations. As such, the District reviews, inspects, and performs maintenance inspections of construction projects, which disturb more than 5,000 square feet. The District also assists and educates local communities on management of stormwater facilities (Sussex Conservation District, 2017). As Sussex County is responsible for issuing building permits, it requires that a sediment control and stormwater management plan that meets all of the requirements of the Sussex Conservation District Sediment Control and Stormwater Management Program and Handbook (including an inspection and maintenance agreement), has been approved by the Sussex Conservation District before a permit is issued.



In March of 2017, Sussex County Council adopted a comprehensive drainage and grading ordinance that established new standards to improve the flow of stormwater in new residential developments. It includes detailed requirements for road construction, sidewalks, and runoff collection systems. It also requires more specific grading plans for developments and lots to ensure stormwater is directed away from streets and homes to stormwater retention systems.

Tax ditches are another type of stormwater management measure that drains stormwater due to changes in topography. They are channels that vary in both width and depth. There are over 2,000 miles of tax ditches is the State of Delaware that provide drainage and flood control in agricultural and urban areas (DNREC, 2017). A Tax Ditch Association is an organization formed by a legal process in the Superior Court that comprises the landowners of a particular watershed or sub-watershed. The Association's ditch managers and secretary/treasurer oversee the operations of the tax ditch. The Association constructs and maintains the tax ditch through funds collected via taxes from landowners in the defined area.

7.7 SOLID WASTE MANAGEMENT

The Delaware Solid Waste Authority (DSWA), under regulation of DNREC, manages Delaware's solid waste. In some Sussex County towns, the local government provides trash collection. Elsewhere, residents and businesses can contract with a DSWA-licensed commercial hauler to collect trash and recycling items, or these items can be brought to one of DSWA's landfills, transfer stations, or collection stations. There is one DSWA landfill located in Sussex County: the 572-acre Jones Crossroads Landfill in Georgetown. There are two transfer centers: the Milford Transfer Station and the Route 5 Transfer Station in Harbeson. There are four collection stations in Sussex County: Ellendale, Long Neck (Millsboro), Omar (Frankford), and Bridgeville.

7.8 UTILITIES GOALS, OBJECTIVES, AND STRATEGIES

Below is a list of goals, objectives, and strategies for Sussex County's Utilities Element:

Goal 7.1: Encourage adequate central sanitary sewer service in a coordinated approach that anticipates future demand.

Objective 7.1.1 Optimize existing sewer transmission and treatment infrastructure utilization, limiting if possible duplicate infrastructure installation.

Strategy 7.1.1.1 Work with the State Legislature to amend DelCode for optimization of the CPCN process.

Strategy 7.1.1.2 Work with the State Legislature to modify the CPCN opt-out process to allow establishment of large area franchises encouraging regionalization.

Strategy 7.1.1.3 Expand use of public-private and public-public partnerships between wastewater utility providers to avoid duplication of infrastructure.



- **Strategy 7.1.1.4** Work towards regionalization of insularly wastewater services such as biosolids management, and septic treatment & disposal.
- **Strategy 7.1.1.5** Create public-private partnerships for on-demand disposal of treated effluent (not limited to agricultural lands).
- **Strategy 7.1.1.6** Amend Chapter 110 of County Code to reflect the new sewer service tier system proposed as part of this Comprehensive Plan update.
- **Objective 7.1.2** Coordinate the planning and development of public and private wastewater transmission facilities with comprehensive planning to ensure central sewer transmission is available commensurate with land use designation.
 - **Strategy 7.1.2.1** Continue the expansion of the County transmission network to allow movement of wastewater between treatment facilities.
 - **Strategy 7.1.2.2** Evaluate the conditional use process for community wastewater system treatment facilities to encourage regionalization.
 - **Strategy 7.1.2.3** Expand the County's sewer planning area tier system.
 - **Strategy 7.1.2.4** Require County exclusive rights in certain tiers and County approval of private CPCNs in other tiers.
- **Objective 7.1.3** Continue to encourage the public petition process initiating conversion of septic to public sewer to replace failing on-site systems or inadequate community sewer facilities.
 - **Strategy 7.1.3.1** Work with DNREC to refine the on-site inspection and remediation process to work in coordination with County sewer expansion goals.
- **Objective 7.1.4** Continually maintain and upgrade existing sewer infrastructure to ensure sound operation.
 - Strategy 7.1.4.1 Explore new technologies for wastewater treatment and disposal.
 - **Strategy 7.1.4.2** Engage in partnerships with the state for conversion of public lands to allow multi-use purpose systems (for example wastewater effluent disposal/park with limited public access).
- **Objective 7.1.5** Coordinate wastewater planning with land use planning to accommodate growth.
 - **Strategy 7.1.5.1** Encourage or require private wastewater utility providers to create transmission networks connecting demand with treatment and disposal sites.



Strategy 7.1.5.2 Engineering Department to investigate possible extensions of County sanitary sewer and/or water service to impacted communities as needs arise on a case by case basis within the confines of the Delaware Code

Goal 7.2: Support the availability of a safe and adequate water supply that can meet the needs of future demand.

Objective 7.2.1 Protect water supply quality and quantity.

Strategy 7.2.1.1 Protect long-term water supply by encouraging land conservation and the purchase of easements (including agriculture and forestry easements) in water recharge areas.

Strategy 7.2.1.2 Determine if modifications are needed to the existing County wellhead protection ordinance in order to allow a case by case analysis of the wellhead protection areas based on general groundwater movement.

Objective 7.2.2 Eliminate any future single point-of-failure delivery systems to ensure that water supplies are available without interruption.

Strategy 7.2.2.1 Require interconnections between water systems whenever supported by sound engineering judgment.

Strategy 7.2.2.2 Encourage regionalization of utility providers.

Goal 7.3: Reduce energy consumption through encouragement of energy conservation and renewable energy.

Objective 7.3.1 Encourage energy conservation in order to increase reliability of the electric grid.

Strategy 7.3.3.1 Consider reductions in building permit fees to homes that go above and beyond the energy code requirements.

Objective 7.3.2 Encourage renewable energy options.

Strategy 7.3.2.1 Encourage renewable energy sources from a utility level standpoint with a committed power company integration.

Strategy 7.3.2.2 Be adaptive to new renewable energy sources and revisit County Code as needed.

Goal 7.4: Support adequate drainage and management of stormwater.

Objective 7.4.1 Support State and Sussex Conservation District stormwater management efforts.



Strategy 7.4.1.1 Continue participation in the stormwater regulatory advisory process with the State for the development of new stormwater regulations.

Strategy 7.4.1.2 Support the Sussex Conservation District in the management and implementation of the Statewide stormwater regulations.

Objective 7.4.2 Encourage site design that maximizes or optimizes infiltration and minimizes stormwater runoff.

Strategy 7.4.2.1 Consider working with stakeholders to develop buffer incentives or a program for wetlands and waterways.

Goal 7.5: Encourage adequate telecommunications coverage (e.g. internet, cable, cellular service) throughout the County to meet the needs of the County's residents.

Objective 7.5.1 Encourage the expansion of telecommunications services as technology, market demand, and return on investment allows.

Strategy 7.5.1.1 Coordinate with and provide technical assistance to telecommunications providers as they work to extend services to Sussex County residents, businesses, and institutions.

Strategy 7.5.1.2 Encourage co-location of telecommunications when possible.

Strategy 7.5.1.2 Revisit County Code to determine ways to streamline the process for approval and construction of telecommunications (including cell tower) infrastructure.

Goal 7.6: Support waste reduction and recycling efforts in the County.

Objective 7.6.1 Continue support of DNREC and the Delaware Solid Waste Authority's waste management and disposal efforts to ensure adequate services for solid waste and recycling.

Strategy 7.6.1.1 Include siting for recycling containers in land use approvals on controlled sites to avoid illegal dumping.

Strategy 7.6.1.2 Revise County codes to include conditional use approvals for recycling processors in the County.

Strategy 7.6.1.3 Develop citing criteria for County code regarding hazardous waste and waste-to-energy (incinerator) facilities.

Strategy 7.6.1.4 Work with the Delaware Solid Waste Authority to identify future transfer sites in the County.



Chapter 8. HOUSING

<u>Housing Vision</u>: To ensure the provision of decent, safe, affordable, and fair housing opportunities to improve communities and quality of life for the residents of Sussex County.

8.1 OVERVIEW

Sussex County is the fastest growing county in the State. Full-time and seasonal residents continue flocking to Sussex County to take advantage of the area's outdoor attractions, low real estate taxes, and high quality of life. This influx has fueled prosperity in the County's real estate market, hospitality industry, and related economic sectors. However, most housing, particularly on the eastern side of the County, is new and often unaffordable to low-income families, seasonal employees, entry-level workers, or recent college graduates.

Sussex County strives to accommodate the housing needs of all of its residents and is always working to affirmatively further fair housing. The County's Community Development and Housing (CD&H) Department leads the County's efforts in working to satisfy the housing expectations of the State and the housing needs of its residents. This chapter presents an overview of the current housing situation in the County, what the County is doing to address housing needs and challenges, and introduces goals, objectives, and strategies to assist the County in achieving its housing vision.

8.2 SUSSEX COUNTY HOUSING SNAPSHOT

The County allows for a mixture of housing types. While the County allows for multifamily (duplexes, townhouses and apartments, etc.) the primary housing type is detached single family (stick built, modular and manufactured homes). The County has seen an increase in the number of major subdivisions applications submitted for approval over the last few years. Residential development can also be approved through Conditional Uses and as part of a Residential Planned Community. Table 8.2-1 indicates the number of subdivision applications that have been reviewed and approved over the last 7 years. Table 8.2-2 indicates the number of residential permits that have been issued since 2013. The County should consider the ability to establish other housing types or reduce the need for a Conditional Use for multifamily development.

Table 8.2-1 Subdivision Approvals (2012-2018*)								
2012 2013 2014 2015 2016 2017 2018								
Number of Subdivision	4	14	8	6	20	20	18	
Number of Units	178	911	295	47	1170	1186	1796	

^{*2018 -} applications submitted as of June 26, 2018; Source – Sussex County Planning Department



Table 8.2-2 Residential Permits Issued (2012-2018*)							
	2013	2014	2015	2016	2017	2018*	
Number of Single Family Residential Permits Issued		1419	1459	1615	1961	992	
Number of Multifamily Residential Permits Issued (Duplexes, Townhouse & Apartments, etc.)	183	137	126	163	107	65	

^{*2018 -} permits issued as of June 26, 2018; Source - Sussex County Planning Department

Table 8.2-3 below presents an overview of Sussex County's present housing situation. Over 60 percent of the total housing units in the County are occupied units while a large percent (36 percent) are vacant units. This large vacancy percentage is not surprising given the County's popularity as a tourist destination as most of the vacant homes are seasonal homes. Of the occupied units, over 77 percent are homeowner-occupied.

Most of the housing units in the County (over 60 percent) are single-family detached. Additionally, most of the housing units in the County were built in 1980 or later.

Table 8.2-3 Summary of 2015 Sussex County Housing Statistics								
	Number	Percent						
Total Housing Units	127,680							
Occupied Units	81,183	63.6%						
Owner-Occupied	62,989	49.3%						
Renter-Occupied	18,194	14.2%						
Vacant Units	46,497	36.4%						
For rent	1,524	1.2%						
Rented, not occupied	113	0.1%						
For sale only	2,528	2.0%						
Sold, not occupied	377	0.3%						
Seasonal, recreational, or occasional use	37,501	29.4%						
For migrant workers	125	0.1%						
Other vacant	4,329	3.4%						
Age of Housing Units								
2010 or later	3,859	3.0%						
2000 to 2009	37,836	29.6%						
1990 to 1999	24,296	19.0%						
1980 to 1989	22,852	17.9%						
1970 to 1979	15,043	11.8%						



Table 8.2-3 Summary of 2015 Sussex County Housing Statistics								
	Number	Percent						
1960 to 1969	8,773	6.9%						
1950 to 1959	5,596	4.4%						
1940 to 1949	2,895	2.3%						
1939 or earlier	6,530	5.1%						
Housing Units by Structure								
Single-Family Detached	79,408	62.2%						
Single-Family Attached	9,957	7.8%						
2-4 Units	3,747	2.9%						
5+ Units	11,331	8.9%						
Mobile Homes	23,178	18.2%						
Boat, RV, van, etc.	59	0.0%						

Source: U.S. Census Bureau, 2015 ACS; GCR Incorporated, Delaware Statewide Housing Needs

Assessment 2015-2020

Note: Vacant units include both unsold and unused structures

8.2.1 Housing Affordability

The strong demand for housing has driven up home prices and apartment rentals to new heights. Sussex County's low- to moderate-income households are hit hardest by these price increases due to the disparity between the slower rise in household incomes as compared to increases in the overall cost of living, especially the cost of housing. The shortage of affordable housing remains a very real problem for low to moderate income households in Sussex County, including many with full-time, year-round jobs.

The housing market in eastern Sussex County is the fastest growing and most expensive housing market in the State. The Delaware State Housing Authority (DSHA) Needs Assessment defines eastern Sussex as those Census tracts that include the beach communities as well as more inland communities that are capturing much of the retiree market, including, Millsboro and Milton. Approximately 40 percent of the population is over 55 years of age in eastern Sussex.

Almost half of the homes in eastern Sussex County are valued at more than \$300,000 (DSHA, 2014). As eastern Sussex County is a tourism hub, it relies on workers in the service and retail industries. According to the Delaware Housing Needs Assessments, some of Delaware's strongest industries (health care, tourism and retail) have many low and moderate wage workers, creating a demand for workforce housing. The report found that there is a shortage of housing affordable to workers within these industries, particularly in the high-growth areas of eastern Sussex County. As a result, these workers are required to commute further distances from areas in western Sussex County where housing is more affordable. This leads to increasing transportation costs and creates dependency on automobile travel.



The DSHA Housing Needs Assessment defines western Sussex as those Census tracts that comprise the western part of the County, including the Route 13 corridor communities and Georgetown. Property values in western Sussex County are much lower than in the eastern part of the county, and growth in the housing market is much slower. Almost 20 percent of the owned homes in western Sussex County are valued at less than \$100,000 (DSHA, 2014). In addition, incomes are significantly lower and poverty rates are higher in western Sussex. Over 36 percent of households living in western Sussex earn less than \$25,000 per year versus 30 percent in eastern Sussex.

Any housing where residents spend less than 30 percent of their household income on housing-related expenses is considered affordable. However, the lower the overall household's income, the more challenging it is to find rental or ownership opportunities that do not exceed the 30 percent affordability threshold. According to the DSHA Needs Assessment, almost half of all renters and one-third of all homeowners have housing challenges (also known as cost-burdened), defined as paying more than 30 percent of their income or living in overcrowded or substandard housing conditions. The challenges are most severe among renters earning less than 50 percent of Area Median Income (AMI). Table 8.2-4 depicts AMI limits according to the U.S. Housing and Urban (HUD) Development Department for FY17 in Sussex County. The AMI in Sussex County is \$65,900, which is lower than the AMI in both New Castle County (\$83,200) and Kent County (\$66,500).

Table 8.2-4 HUD FY 2017 Income Limits Summary for Sussex County									
Median	FY 2017 Income	Persons in Family							
Income	Limit Category	1	2	3	4	5	6	7	8
\$65,900	Low (80%) Income Limits (\$)	36,900	42,200	47,450	52,700	56,950	61,150	65,350	69,600
	Very Low (50%) Income Limits (\$)	23,100	23,100	23,100	23,100	23,100	23,100	23,100	23,100
	Extremely Low Income Limits (\$)	13,850	13,850	13,850	13,850	13,850	13,850	13,850	13,850

Source: HUD FY 2017 Income Limits Documentation System

Table 8.2-5 depicts monthly housing costs in Sussex County as a percentage of household income over the past 12 months. In general, those earning lower incomes and those in renter-occupied housing spend 30 percent or more of their income on monthly housing costs.

^{*} The definition of extremely low-income is the greater of 30/50ths (60 percent) of the Section 8 very low-income limit or the poverty guideline as established by the Department of Health and Human Services (HHS), provided that this amount is not greater than the Section 8 50 percent very low-income limit.



Table 8.2-5 Monthly Housing Costs as Percentage of Household Income in the **Past 12 Months** Renter-Owner-**Occupied Housing Subject** Occupied Occupied Units **Housing Units Housing Units** Less than \$20,000 13.1% 10.5% 22.2% Less than 20 percent 1.0% 1.1% 0.9% 20 to 29 percent 1.8% 1.6% 2.5% 30 percent or more 10.3% 7.8% 18.7% 19.3% \$20,000 to \$34,999 15.7% 14.7% Less than 20 percent 3.8% 4.7% 1.0% 20 to 29 percent 3.1% 2.8% 4.1% 30 percent or more 8.8% 7.2% 14.2% \$35,000 to \$49,999 15.2% 14.5% 14.4% Less than 20 percent 5.5% 6.4% 2.3% 20 to 29 percent 3.5% 2.8% 5.8% 30 percent or more 5.5% 7.0% 5.1% \$50,000 to \$74,999 19.9% 21.3% 14.8% Less than 20 percent 9.7% 10.9% 5.4% 20 to 29 percent 6.0% 5.8% 6.9% 30 percent or more 4.1% 4.6% 2.5% \$75,000 or more 33.4% 38.3% 16.5% Less than 20 percent 24.8% 12.6% 28.3% 20 to 29 percent 6.7% 7.5% 3.8% 1.9% 30 percent or more 2.5% 0.1% Zero or negative income 1.0% 0.9% 1.2%

Source: U.S. Census Bureau, 2011-2015 ACS 5 year estimates

No cash rent

Table 8.2-6 depicts rental and homeownership demand by income in the County. Most of the rental and homeownership demand is in eastern Sussex County where home prices and rents are the highest.

2.4%

(x)

10.9%



Table 8.2-6 Rental and Homeownership Demand by Income (2015-2020)									
		<30% AMI	30% to 50% AMI	50% to 80% AMI	80% + AMI	TOTAL			
Rental Demand	East Sussex	165	215	200	550	1,130			
	West Sussex	220	140	170	290	820			
Home-ownership Demand	East Sussex	510	560	1,265	1,295	3,630			
	West Sussex	200	240	485	490	1,415			

Source: DSHA Quarterly Affordability Gap Report, GCR Inc.

Home ownership is a challenge for many workers in Sussex County. Table 8.2-7 depicts the affordable housing surplus/gap in the County. The median home price in Sussex County was \$295,618 in the first quarter of 2017. For comparison, the median home price in Kent County was \$198,750, and was \$208,000 in New Castle County. For a worker in Sussex County making 100 percent of the median income, there still would be a \$30,000 affordability gap if he or she wanted to purchase a home. The gap grows as workers make less of the median income. For example, the amount affordable to a worker in Sussex County who makes 50 percent of AMI is \$110,969, creating an affordability gap of \$184,649.

Table 8.2-7	Affordable Housing Surplus / Gap 2017						
	Affordable Hou	sing Thresholds	Fair Market R & Median Ho (MH	Surplus or (Gap)			
	Affordable		1 Bedroom FMR, year	\$730	(\$266)		
	Rent (low-income, 30% AMI)	\$464	2 Bedroom FMR, year	\$987	(\$523)		
			3 Bedroom FMR, year	\$1,347	(\$883)		
2017 HUD MFI Median income for a Sussex County family: \$65,900	Affordable Home Price (Qualifying Mortgage Amount for low income, 50% AMI)	\$110,969	MHP, 1st Quarter, 2017	\$295,618	(\$184,649)		

Sources: Delaware Statewide Housing Needs Assessment; HUD FY 17 Median Family Income Documentation System; DE State Housing Authority Median Home Prices and Affordability Ranges First Quarter 2017; Who Can Afford to Live in Delaware Report (2016).



For many workers in Sussex County, rental costs may also be a challenge. As shown in Table 8.2-7 above there is an affordability gap for renters in Sussex County. Figure 8.2-1 below depicts median hourly wages for selected professions. The average rental cost of a two-bedroom apartment in Sussex County aligns with a median hourly wage of \$18.98. Many service industry professions provide median hourly wages less than \$18.98, making rental housing less affordable to employees in those industries. According to the Housing Alliance Delaware's 2017 report, "The State of Housing & Homelessness in The First State" a minimum wage worker would have to work 85 hours per week in order to afford a two-bedroom, fair market rent apartment in Sussex County.



Figure 8.2-1 Median Hourly Wage in Sussex County for Selected Professions

Source: DSHA Sussex County Housing Fact Sheet, 2018

Many individuals rely on subsidies for housing to help fill the affordability gap. According to the DSHA Needs Assessment, there are over 3,100 subsidized rental units in the County. Many of these (14 developments and 555 units of subsidized rental housing) are over 25 years old without substantial rehab. Figure 8.2-2 shows that many of the subsidized housing units in Sussex County are in the west near Georgetown, and near the beach communities of Lewes and Rehoboth Beach.



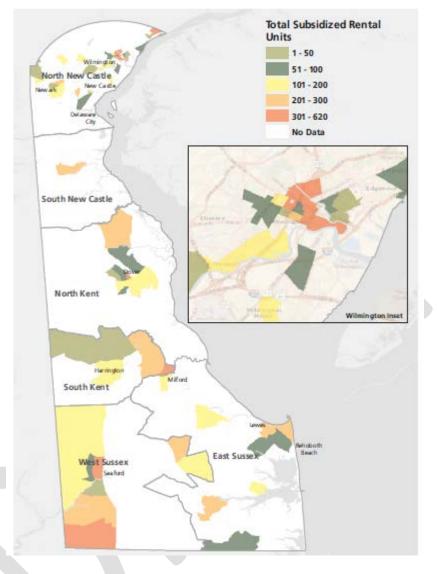


Figure 8.2-2 Subsidized Housing Units by Census Tract 2013

Source: DSHA Housing Needs Assessment, 2014

Manufactured homes can create affordable housing opportunities. According to the Corporation for Enterprise Development (CFED), a national non-profit organization, the average cost per square foot of manufactured homes is less than half that of site-built homes. Yet despite sometimes disparaging stereotypes, properly built and well-managed manufactured home communities grow in value and can be community assets. The County has a strong market for these units considering the problems many local workforce members have affording local home prices. In addition, there is a demand for manufactured housing as affordable vacation homes in the eastern area of the County. The U.S. Census reported that Sussex County had 23,178 manufactured homes in 2015. This represented 18.2 percent of all homes in the County. For



comparison, Kent County has 8,996 manufactured homes (13.4 percent of total housing units) and New Castle County had 5,164 manufactured homes (2.4 percent of housing units).

The County is working hard to create more affordable housing opportunities in Sussex. More information about County initiatives that support affordable housing in Sussex County is described in Section 8.3 below.

8.2.2 Housing Conditions

In addition to affordable housing issues, Sussex County faces challenges concerning the quality and condition of its housing stock. Despite the surge of new housing recently built in the County, many Sussex County communities have many housing units that need rehabilitation.

The 2014 Delaware Housing Needs Assessment Report estimated that in the State of Delaware there are more than 18,000 substandard housing units. Substandard housing is defined as homes that are vacant and abandoned; homes that are occupied but are in unlivable conditions; and homes that are occupied and in disrepair. The same report estimated that there are 4,097 substandard units in Sussex County (3.2 percent of all units). Of these, 3,209 are owner-occupied and 888 are renter-occupied.

A priority for Sussex County is to preserve the existing housing stock through rehabilitation. Section 8.3 below discusses Sussex County's rehabilitation funding programs.

8.2.3 Homelessness

According to the DSHA Housing Needs Assessment, over 8,000 people in Delaware experience homelessness each year. These include the chronically homeless, veterans, persons with alcohol and drug addictions, and families with children. There are also other groups that are at-risk of becoming homeless. These may include ex-offenders re-entering the community, victims of domestic violence, and youth aging out of foster care.

Approximately 13 percent of people experiencing homelessness in Delaware live in Sussex County. Point in time data (2017) provided by Housing Alliance of Delaware indicated that 126 homeless people in Sussex County are sleeping in temporary shelters or on the street. The Housing Alliance also estimates that 400 people will experience homelessness in the County at some point in 2017.

Many of the homeless in both Delaware and in Sussex County are veterans. In order to reduce veteran homelessness, Sussex County (along with five of its towns), participate in the national Mayors Challenge to End Veteran Homelessness. As part of this initiative, the State of Delaware worked in a coordinated effort with non-profits, faith-based organizations, and government sectors to identify 556 homeless veterans between January 2015 and January 2017 and was able to provide housing for 453 of these veterans. In addition, 100 of these veterans were able to receive permanent housing in Sussex County.



Homelessness also can be dangerous during times of severe weather and storm events. There are 58 emergency shelter beds in the County. This number can be expanded to 75 beds when nighttime temperatures fall below 32 degrees Fahrenheit, utilizing Code Purple cold weather shelters. However, these beds are still not sufficient to accommodate the estimated homeless population in Sussex County.

There are a number of non-profit groups operating in the County that provide assistance to the homeless and families at risk of homelessness. These groups operate shelters, provide emergency housing to those at risk of homelessness, provide services to shelter residents, case management, and provide outreach to residents currently living on the street. Sussex County supports non-profits and other stakeholders working to reduce homelessness in the County, including the implementation of year-round low-barrier shelters, and the exploration of ways to expand Rapid Re-Housing to reduce displacement. The County is also considering ways to support the repurposing and redevelopment of vacant properties to reduce homelessness and displacements in the County.

8.3 SUSSEX COUNTY HOUSING INITIATIVES

In cooperation with the State, federal agencies, housing industry representatives and non-profit housing groups, Sussex County has been very active in trying to address low- to moderate-income housing needs.

The main goals of The Sussex County Community Development and Housing Department (CD&H Department) are to preserve Sussex County's housing stock and promote fair and affordable housing. Its work also furthers Sussex County's mission to promote non-discrimination and affirmatively further fair and equal housing opportunities for all, and to inform housing developers and the general public that the County supports the development of affordable housing opportunities in Sussex County. Since 1990, the Department has assisted more than 3,600 families with housing needs.

The CD&H Department provides and manages grants and loans for housing rehabilitation, water and sewer hookup, demolition, and small infrastructure projects, which are provided to low- to moderate-income residents in Sussex County.

The CD&H Department administers a variety of housing programs that have contributed to hundreds of renovations to preserve the affordable housing stock in Sussex County. However, there are still unmet needs for housing rehabilitation in the County. There are currently over 1,000 homes on the waiting list to receive rehabilitation assistance from the County, but due to funding constraints, the County can only rehab approximately 150 homes per year. The sections below outline the various housing initiatives and efforts the County is taking to continue to expand its reach in providing assistance to Sussex County residents.

8.3.1 Housing Rehabilitation and Related Assistance



As discussed above, the County faces challenges concerning the quality and condition of its housing stock. A large focus of the CD&H Department is on programs that preserve the affordable housing stock. The CD&H Department will continue to expand and promote these housing rehabilitation and related assistance programs outlined below.

8.3.1.1 Community Development and Block Grant (CDBG) Program

The CD&H Department administers the U.S. Housing and Urban Development Department's (HUD) Community Development and Block Grant (CDBG) Program. According to HUD, the Program's objectives are to develop viable communities by providing decent housing and a suitable living environment, and by expanding economic opportunities, principally for persons of low to moderate income. The Program also requires that the home must be the primary residence of the homeowner, and the homeowner must be a permanent resident of Sussex County. Through the County's CDBG Program Guidelines, the County adheres to the federal and state requirements associated with the Uniform Relocation Act (URA) if relocation of housing applicable.

Further, through the CDBG Program, the County enters into a Programmatic Agreement with the National Advisory Council on Historic Preservation and the State Historic Preservation Office (SHPO) to ensure that the integrity of historic properties is maintained during CDBG eligible activities.

The primary goal of the CDBG Program is to preserve the housing stock throughout the County. By rehabilitating substandard homes, it ensures the affordability of those homes in the future. The Delaware Statewide Needs Assessment classifies a substandard home as one that is deficient in at least two structural systems and in need of substantial rehabilitation in order to make them structurally sound, safe, and habitable. The same report estimated there are 4,097 substandard units in Sussex County (3.2 percent of all units).

The CDBG Program is the largest funding source used by the CD&H Department. Since FY10, the County has spent more than \$5.7 million in CDBG funds and helped repair or rehabilitate more than 700 properties. The CD&H Department applies for funding on behalf of local municipalities who request assistance from the County. Funding is funneled through the Delaware State Housing Authority who receives CDBG funds directly from HUD since the County is not currently an Entitlement Community. Until recently, the County previously did not meet the population requirement of 200,000 in order to be eligible for direct funding from HUD. As a result, funding is subject to State CDBG Program Guidelines. However, as of the last U.S. Census, the County population now exceeds the threshold needed to become an Entitlement Community. As such, the County should consider pursuing HUD Entitlement Community status.

8.3.1.2 HOME Investments Partnership Program (HOME)

The CD&H Department administers HUD's Home Investment Partnerships Program (HOME). HOME provides formula grants to states and local governments to fund a wide range of activities, including building, buying, and/or rehabilitating affordable housing (HUD, 2017). It is designed exclusively to create affordable housing for low-income households.



The program is offered statewide by DSHA and provides financial assistance to affordable housing providers. For Sussex and Kent County governments, DSHA directs that HOME funds are earmarked for owner-occupied housing rehabilitation projects. Since 2013, Sussex County has used \$2.5 million in HOME funds for owner-occupied home repairs and rehabilitation of almost 200 homes.

8.3.1.3 Neighborhood Stabilization Program (NSP)

The CD&H Department also administers the Neighborhood Stabilization Program (NSP 1 & 2). Congress established the NSP for the purpose of stabilizing communities that have suffered from foreclosures and abandonment (HUD, 2017). HUD provides funding for the purchase and redevelopment of foreclosed and abandoned homes and residential properties. It also provides for the creation of a second mortgage finance mechanism (DSHA, 2017).

For the State of Delaware NSP, HUD provided \$19.6 million to the Delaware State Housing Authority in March of 2009. DSHA then allocated those funds to local jurisdictions through a competitive process based on need and on each applicant's proposed impact statewide. Over \$2.3 million in NSP 1 funds have been invested in properties in Sussex County, assisting 33 households.

HUD made a second round of NSP funding available in May of 2009 (NSP 2) and DSHA was awarded \$10 million in NSP 2 funding. To date, over \$1 million in NSP 2 funding has been utilized in Sussex County, assisting 12 households.

8.3.1.4 Housing Preservation Grant (HPG) Program

The CD&H Department administers the USDA's Rural Development Housing Preservation Grant (HPG) Program to renovate homeowner-occupied units. It is a competitive grant that provides for the rehabilitation of homes for those with low incomes. Eligibility for HPG Program funding requires that the home be owner-occupied. The USDA specifies that "low income" is defined as income between 50 percent and 80 percent of the Area Median Income, and "very low income" is defined as income less than 50 percent of the Area Median Income. In the past six years, the County has spent over \$122,000 in HPG Program funding in the County. The County focuses this funding on very low-income households. It is primarily used for small, owner-occupied housing rehabilitations and handicap accessibility.

8.3.1.5 Sussex County Emergency Repair Program

Since FY13, Sussex County Council has provided over \$1 million in Emergency Rehabilitation Funds to assist over 300 households in need of emergency housing repairs. Funding is prioritized for those individuals with disabilities, individuals 65 years of age or older, households at or below 30 percent AMI, and veterans.

8.3.1.6 Sussex County Emergency Repair Program

Since FY10, Sussex County Council has provided over \$1 million in Emergency Rehabilitation Funds to assist over 300 households in need of emergency housing repairs. Funding is prioritized for those individuals with disabilities, individuals 65 years of age or older, households at or below



30 percent AMI, and veterans. Some uses of the funding include repair or replacement of damaged pipes, creation of handicap ramps, heater repair or replacement, installation or repair of water pumps, installation or repair of roofs, shower accessibility, and electrical work.

8.3.2 Property Maintenance and Substandard Housing

Multiple departments in the County play a role in property maintenance and substandard housing issues. The Constable's Office responds to resident complaints of substandard rental housing conditions. In the fall of 2015, the Constable's Office condemned and placed Corrective Action Plans on two housing units, which prompted the development of a formal Rental Unit Complaint Process. The new Complaint Process allows the County to receive and respond to complaints regarding substandard rental housing standards, and work closely with the owner/landlord to ensure that repairs are made. As this is a new process, it may be unfamiliar to many residents. As a result, the County will engage in additional education and outreach efforts to spread information about the program.

While the Rental Unit Complaint Program is designed to assist tenants in reporting substandard rental housing conditions, the County is considering measures to assist landlords in improving housing before it reaches substandard conditions. The County will consider development of a process to work with landlords who have limited access to resources to bring properties up to code in a manner that supports, rather than penalizes, those seeking assistance to improve their housing stock.

There are also some housing situations in the County where changes to County Code may be necessary in order to ensure the provision of safe and decent housing for County residents. For example, the County may wish to consider an ordinance with rules and regulations governing campgrounds as there have been instances in the County where seasonal campgrounds have become locations of permanent housing with people living in substandard conditions. This would fall under the purview of the Planning and Zoning Department and Zoning Code.

There are also many dilapidated and abandoned structures within the County that not only are aesthetically unpleasing but also pose a safety risk. It is unknown how many of these structures exist and their locations. As a result, the County may consider developing a method to identify and track these dilapidated and abandoned structures.

Furthermore, there are cases where the ownership structure of a property that is in disrepair is unclear present challenges to home repair through the County's existing resources. In these situations, it may be costlier to clear title than it would be to perform the repairs. Therefore, the County is considering ways to facilitate home repairs and maintenance on properties with these challenges.

8.3.3 Homeownership and Rental Programs

The County has two voluntary inclusionary zoning programs that it uses to further promote more affordable housing and promote a wider range of housing options.



8.3.3.1 Sussex County Moderately Priced Housing Unit (MPHU) Program

In January 2006, the Sussex County Council introduced and approved the Moderately Priced Housing Unit (MPHU) Program. The MPHU was amended in 2007 and again in 2013. This initiative provides incentives for developers to build moderately priced housing units, including expedited review and density bonuses to developers who build homes affordable to people within 50 percent and 125 percent of the area's median income, established yearly by HUD. Depending on the specific income level targeted, developers of approved projects can build between 20 percent and 30 percent more units than otherwise allowed (based on income tier targeted).

The projects must be: a) owner-occupied housing; b) located in a growth area as defined by the County Comprehensive Plan, or land that is designated on a town's comprehensive plan as lying within the town's growth and future annexation area; c) 15 percent of the units must be affordable to households within 50-125 percent of HUD's AMI; d) connect with public water and sewer facilities; and e) must contain a minimum of 35 units.

Homebuyers must live and work in Sussex County for at least one year and be income-eligible to participate. They must earn between 50-125 percent of HUD's AMI. The homebuyer must be the primary occupant of the house and the house must be their primary residence.

The MPHU Program is voluntary, and individual projects are subject to County approval. The County established the program to meet the needs of low- to moderate-income residents, as well as to entice young professionals to stay in Sussex County. One of the goals of the program is to educate young professionals that there is affordable housing available if they were to return home to Sussex County for employment. Another goal is to limit the commuting distance to the workplace. The program can create housing close to employment opportunities, thereby contributing to reduced commuter costs and less traffic.

To ensure that MPHUs will remain affordable, the program imposes affordability restrictions. The program uses deed restrictions to guarantee the re-sale prices of these homes remain affordable for a 20-year period.

8.3.3.2 Sussex County Rental Program (SCRP)

The County recognizes that without an adequate supply of affordable rental housing in close proximity to employment and town centers, the County's workforce must commute a great distance for work. Not only do long commutes have a negative effect on the environment and transportation but commuting also comes with high fuel expenses.

Sussex County passed the Sussex County Rental Program (SCRP) ordinance in 2008. The SCRP was created because of the significant lack of affordable rental housing in the County to meet the post-housing bubble demand. In 2016, there were over 17,000 renter households in the County that faced a shortage of affordable rental units. Further, the Delaware State Housing Authority currently maintains a consistently lengthy 18-48 month waiting list of 12,500 applicants for public housing and housing choice vouchers.



The SCRP provides incentives for developers to construct affordable rental units through tools such as a density bonus and an expedited review. However, as a result of the housing market collapse of 2008-2009, the program did not receive many applications. The County recently amended the program in November 2016 to reflect real world market applications. Some of the changes included reducing the required percentage of affordable units set-aside from 15 percent/40 percent to a flat rate of 12.5 percent of total units. In addition, it set fixed rental rates by bedroom-size based on 50 percent AMI. Although the County has not received any applications since the changes to the ordinance were made, CD&H is working to promote the program.

8.3.3.3 Other Homebuyer and Rental Assistance Efforts

The CD&H Department also engages in a number of other efforts to assist homeowners and renters with their housing needs. For example, Sussex County held its third annual Homebuyer's Fair in the fall of 2016 to provide individuals and families interested in homeownership with their credit information, an approximation of what house price range they might qualify for, and a preliminary work plan to become mortgage ready. Participants received a free copy of their credit report and a mini-counseling session with a HUD-approved housing counselor. Participants also had access to vendors and exhibitors with different programs, opportunities, and resources available for potential homebuyers. The CD&H Department hopes to partner with local agencies to offer this event annually.

Additionally, the County invests in resources such as DelawareHousingSearch.org that assist individuals with locating homes to rent, homes to buy, accessible housing and veteran housing. The County is also interested in finding ways to identify rental units throughout the County to further assist in matching tenants looking for housing with landlords.

There are also a number of new tools and initiatives the County can consider to assist homebuyers or renters. Fees associated with building permits, sewer hook-ups, and other initial housing costs are often a challenge for homebuyers with limited income. The County may consider if a sliding scale fee structure for homebuyers below a certain income threshold is feasible.

8.3.4 Cooperation with Non-Profit Housing Entities

Cooperation with non-profits is essential for extending the County's reach in meeting its housing goals, particularly with regard to affordable housing. There are numerous non-profit housing organizations operating in the County ranging from those that promote affordable housing to those that work to reduce homelessness. The CD&H Department maintains a list of these organizations and regularly connects residents with these organizations and their resources. The CD&H Department also regularly attends meetings of these groups.

Sussex County Council supports non-profits financially by making grants available for non-profit agencies to assist with housing programs through two means. Human Services Grants are made available annually to countywide, non-profit agencies to enhance health and human services, which contribute to a safe, healthy, and self-sufficient community. Throughout the year, the



Sussex County Council provides grants through its Non-Profit Grant Program to non-profit agencies to assist with resources in support of programs, or capital purchases that would benefit Sussex County residents.

Sussex County will continue to expand its relationships with non-profit housing organizations and continue to provide these organizations with grants and technical assistance. The County recognizes the efforts of these organizations to provide the low to moderate income people of Sussex County with affordable housing options and will continue to support these efforts. In addition, these organizations play an important role in assisting the County with its efforts to increase education and awareness of the County's housing assistance programs.

8.3.5 Furthering Affordable and Fair Housing

Sussex County strives to promote non-discrimination and ensure fair and equal housing opportunities for all. Further, to inform housing developers and the public that the County supports the development of affordable housing opportunities in Sussex County. Sussex County promotes racially/ethnically diverse, mixed income, affordable housing all areas under its jurisdiction. Accordingly, developers are encouraged to provide affordable housing opportunities to Sussex County residents in all new developments, affirmatively market those affordable housing units to diverse populations, and meet with the surrounding residents early in the development approval process.

Sussex County has an Affordable Housing Support Policy, supporting the development of affordable housing in Sussex County. The policy defines what the County considers affordable housing and affordable rental housing projects. The County also provides letters of support to developers of affordable housing projects seeking financing opportunities, provided that the project qualifies under the definitions defined in the policy. Support letters for affordable rental housing projects will only be authorized if the project is proposed in an Area of Opportunity, as defined by the DSHA. These Areas of Opportunity are considered areas of strong, high value markets where new affordable housing opportunities should be supported. The DSHA provides an online map available through its website where users may view the Areas of Opportunity in Sussex. The State updates this data annually and it is automatically reflected in the maps. The County also provides for a deferral of sewer impact fees up to one year for non-profit developers constructing affordable housing.

In addition to furthering opportunities for affordable housing, Sussex County also promotes fair housing. The Sussex County Council adopted a Fair Housing Policy in December 2012, which was subsequently revised in 2013 to reflect additional Anti-NIMBY language. It is the policy of Sussex County to comply with the Fair Housing Act, as amended, and the Delaware Fair Housing Act, by ensuring that its officials, agents, and employees will not discriminate in any aspect of housing based on the following protected classes: race, color, religion, national origin, handicap/disability, familial status, sex, creed, marital status, age, sexual orientation, source of income, or gender identity. The County developed an Affordable and Fair Housing Marketing Plan in 2013 that aims to guide related efforts and outreach. The plan continues to be adjusted

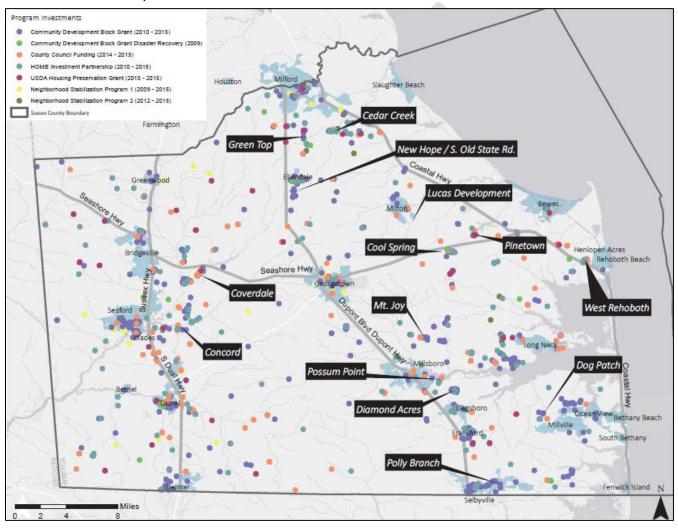


and amended to reflect additional needs and efforts. For example, Sussex County has developed an online resource center available through the County's website where people can find information regarding affordable and fair housing from Sussex County Government, upcoming events, and access fair housing resources at the State and Federal levels. Members of County-appointed boards and commissions, elected officials, and County staff have attended fair housing training. The County is continuing to encourage more staff and officials to attend annual training, and also encourage diversity in appointments for its land use boards. The County also has an opportunity to partner with stakeholders to provide training and technical assistance to municipal leaders and others about fair and affordable housing.

In addition, the County is working to implement its Impacted Communities Study. The study evaluated 14 communities in the County to determine individual and community needs. Evaluation of the Impacted Communities included an analysis of residents' responses to questions about the prioritization of their individual and community needs, a geographic assessment of each Impacted Community, and an evaluation of the County's past participation of providing funding for owner-occupied housing rehabilitation, trash disposal, roadway crusher run installation, well and septic installation and repair, public water and sewer system hookup, afterschool and community programs, street lighting and construction for accessibility within the Impacted Communities. The Impacted Communities are depicted on Figure 8.3-1. The study also evaluated the County's investments within the impacted communities. Between FY09 and FY16, the County provided 308 investments totaling over \$1.6 million.



Figure 8.3-1 Location of Sussex County Impacted Communities and Community Development and Housing Investments, 2009-2015



Source: Impacted Communities Study, 2016



The County CD&H Department continues to focus efforts in supporting and improving housing in the impacted communities and promoting the creation and preservation of affordable housing in the County. Using data obtained from the study and past investments in the communities, CD&H developed a Rural Community Funding Plan to prioritize the application and investment of federal funding in the impacted communities. This Plan assigns a percentage of annual funding to the communities based on their percentage of low-moderate income (LMI) residents of the total LMI population of all 14 communities surveyed. The Plan was rolled out as part of the FY18 CDBG grant application for Sussex County.

Other County departments also can or already do assist in supporting these efforts. For example, the Engineering Department could investigate possible extensions of County sanitary sewer and/or water service to impacted communities as needs arise on a case-by-case basis within the confines of the Delaware Code. Additionally, the County Planning and Zoning Office currently collaborates with developers through pre-submission meetings, providing it on the County's website and including it with the applications to support the expansion of affordable housing. Through those meetings, the office also promotes the use of DSHA's Areas of Opportunity maps. The County also has a program for sewer fee deferrals for non-profit affordable housing projects that will continue to be marketed so that more groups take advantage of it.

In order to expand opportunities for more affordable housing and determine that there are not any regulatory barriers to further promoting affordable housing, the County may wish to consider revisiting its Code regularly. For example, the County may consider revisiting its code to evaluate the current process for how group homes, shelters, and co-living arrangements are approved to determine if revisions are necessary so that these types of affordable housing can be further promoted. The County may also consider revisiting zoning code to determine in districts where multifamily housing is currently a conditional use, if it should be made a permitted use at the densities permitted in the districts if water and sewer are available.

In addition to the MPHU and SCRP, the County has a number of existing ordinances that can help expand affordable housing in the County. These include the accessory dwelling unit ordinance, the garage/studio apartment ordinance, special exceptions for medical hardships, and the use of guest houses. The County should consider continuing to promote these ordinances.

As discussed in the Community Design Chapter, tiny home construction is spreading in popularity across the United States as people choose to downsize and simplify the space where they live. Tiny houses can range in size from 100 to 400 square feet, and come in many shapes, sizes, and forms. As tiny houses have an opportunity to be a form of affordable housing, the County will review the zoning code to determine if modifications are needed to permit new styles of housing to be developed in the code as they appear. This may also include determining the challenges and opportunities that could be associated with allowing multiple small units (such as tiny houses) on one lot.



The main focus of the County's affordable housing efforts has been through incentives. Although the MPHU and SCRP have not been taken advantage of by many developers to date, the County will continually work to improve these programs to properly reflect the housing market and incentivize developers to participate in the provision of affordable housing. The County may also consider exploring additional ways for private developers to provide more multi-family and affordable housing opportunities. One method could be requiring a certain percentage to be affordable. Another method could be by broadening the product type in zoning that allows fee-waivers for affordable housing to include multi-family housing. This could be beneficial to multi-family rental developments using state and federal resources that have affordability restrictions as they could apply for reduced fees (building permits, sewer hook-up fees, etc.).

Additionally, the County may consider development of a Community Development Fund or similar funding mechanism to provide affordable housing assistance, creation, and preservation. Such funding could be used to create new programs and tools such as a loan fund to provide low interest financing for affordable housing providers and developers to assist with creation of affordable housing projects/ventures. Another tool that could be considered is development of a Down Payment and Closing Cost Assistance Program to provide assistance to income-qualified homebuyers. Furthermore, the fund could be used to develop financial literacy scholarships so that low and moderate income individuals that receive County funding can attend HUD-approved housing counseling.

Cooperation with non-profit housing entities and advocacy groups will play a critical role in helping the County achieve its affordable and fair housing objectives as they have local ties with the community and those populations most in need of affordable housing. For example, the County actively coordinates with the Sussex County Advisory Committee on Aging and Adults with Physical Disabilities. This committee can play an important role in determining barriers and opportunities for the expansion of housing opportunities for persons with disabilities and the aging. One opportunity can be through encouraging universal design principles in new home construction and rehabilitation. Universal design focuses on making a house safe and accessible for everyone, regardless of age, physical ability, or stature.

The County can also partner with non-profit advocacy groups to help determine barriers and opportunities for the expansion of housing opportunities for English as a Second Language (ESL) populations. This is particularly important as the County population is expected to grow and diversify through 2045. As discussed in the Population and Demographics Chapter, it is estimated that there will be almost 39,000 people of Hispanic ethnicity living in Sussex County by 2045, which will represent approximately 15 percent of the total population. Partnerships with advocacy groups as well as implementation of the County's Language Plan will help provide resources and assistance to ESL populations.

8.4 HOUSING GOALS, OBJECTIVES, AND STRATEGIES

The County is committed to ensuring that residents have access to safe, decent, and affordable housing. As described above, the County has a number of housing initiatives and partnerships



that it undertakes to increase the supply of affordable housing, preserve the existing housing stock, and diversify the housing market. However, even more can be done to continue and expand these efforts. Below is a list of goals, objectives, and strategies for Sussex County's Housing Chapter to support and strengthen the County's Housing Vision:

Goal 8.1: Ensure the provision of safe and decent housing for County residents.

Objective 8.1.1 Improve housing quality and condition, without causing displacement.

- **Strategy 8.1.1.1** Strengthen the County Constable Office's existing Rental Unit Complaint Program through additional education and outreach efforts.
- **Strategy 8.1.1.2** Identify a way to identify rental units throughout the County to assist in matching tenants looking for housing with landlords.
- **Strategy 8.1.1.3** Consider development of a process to work with landlords who have limited access to resources to bring properties up to code that supports, rather than penalizes, those seeking assistance to improve their housing stock.
- **Strategy 8.1.1.4** Evaluate current process for how group homes, shelters, and coliving arrangements are approved through County Code to determine if revisions are necessary.
- **Strategy 8.1.1.5** Consider an ordinance with rules and regulations governing campgrounds.
- **Strategy 8.1.1.6** Engineering Department to investigate possible extensions of County sanitary sewer and/or water service to impacted communities as needs arise on a case-by-case basis within the confines of the Delaware Code.
- **Objective 8.1.2** Encourage reinvestment in existing housing stock through rehabilitation and renovation and support removal of substandard dwelling units.
 - **Strategy 8.1.2.1** Expand Sussex County Department of Community Development and Housing's Housing Rehabilitation and related assistance programs.
 - **Strategy 8.1.2.2** Continue to utilize funds such as those through the CDBG and HOME programs to rehabilitate and renovate housing units.
 - **Strategy 8.1.2.3** Consider development of a method to track dilapidated and abandoned structures in the County.
 - **Strategy 8.1.2.4** Consider pursuing HUD Entitlement Community status for the County.
 - **Strategy 8.1.2.5** Consider development of a funding mechanism to provide home repairs on properties that do not have a clear ownership structure.



- Objective 8.1.3 Reduce homelessness and displacement in Sussex County.
 - **Strategy 8.1.3.1** Coordinate with non-profits and other stakeholders working to reduce homelessness in Sussex County.
 - **Strategy 8.1.3.2** Support implementation of low-barrier shelters year-round in Sussex County.
 - **Strategy 8.1.3.3** Explore opportunities to expand Rapid Re-housing (RRH) & Permanent Supportive Housing (PSH) in Sussex County.
 - **Strategy 8.1.3.4** Consider ways to support the repurposing and redevelopment of vacant properties into opportunities to reduce homelessness and displacement in the County.
- Goal 8.2: Ensure that a diversity of housing opportunities are available to meet the needs of residents of different ages, income levels, abilities, national origins, and household configurations.
 - **Objective 8.2.1** Affirmatively further affordable and fair housing opportunities in the County to better accommodate the housing needs of all residents.
 - **Strategy 8.2.1.1** Improve the County's SCRP and the MPHU Programs to provide incentives to properly reflect the housing market and incentivize developers to participate in the provision of affordable housing.
 - **Strategy 8.2.1.2** Consider development of a Community Development Fund or similar funding mechanism to provide affordable housing assistance, creation, and preservation.
 - **Strategy 8.2.1.3** Explore ways for private developers to provide more multi-family and affordable housing opportunities.
 - **Strategy 8.2.1.4** Continue to increase education and awareness of the County's housing assistance programs.
 - **Strategy 8.2.1.5** Examine if a sliding scale fee structure for homebuyers below a certain income threshold is feasible.
 - **Strategy 8.2.1.6** Consider development of financial literacy scholarships so that qualifying low and moderate income individuals that receive County funding can attend HUD-approved housing counseling.
 - **Objective 8.2.2** Work with private and public agencies to increase affordable rental and homeownership opportunities.



- **Strategy 8.2.2.1** Explore opportunities to partner with non-profit housing advocates to provide more affordable housing options.
- **Strategy 8.2.2.2** Provide grants and technical assistance to non-profit agencies to assist with affordable housing programs.
- **Objective 8.2.3** Facilitate and promote land use policies that enable an increase in the supply of affordable housing in areas with adequate infrastructure.
 - **Strategy 8.2.3.1** Promote increasing affordable housing options, including the supply of rental units, near employment opportunities.
 - **Strategy 8.2.3.2** Review County code to determine if there are regulatory barriers to development of affordable housing and manufactured housing.
 - **Strategy 8.2.3.3** Further promote and consider expansion of existing opportunities for affordable housing such as the Accessory Dwelling Unit ordinance, Garage/Studio apartment ordinance, Special Exception for Medical Hardships, and/or the use of guest houses.
 - **Strategy 8.2.3.4** Determine the challenges and opportunities that could be associated with allowing multiple, small units (such as tiny houses) on one lot and if found feasible and determine if code modifications are needed.
 - **Strategy 8.2.3.5** Consider broadening the product type in zoning that allows fee-waivers for affordable housing to include multi-family housing.
 - **Strategy 8.2.3.6** Consider revisiting zoning code to determine in districts where multifamily housing is currently a conditional use, if it should be made a permitted use if water and sewer are already present and available on the site.
- Objective 8.2.4 Expand housing opportunities for persons with disabilities and the aging.
 - **Strategy 8.2.4.1** Encourage universal design principles in new home construction and rehabilitation.
 - **Strategy 8.2.4.2** Continue coordination with the Sussex County's Advisory Committee on Aging and Adults with Physical Disabilities to determine barriers and opportunities for the expansion of housing opportunities for persons with disabilities and the aging.
- **Objective 8.2.5** Expand housing opportunities for populations where English is a second language (ESL).
 - **Strategy 8.2.5.1** Partner with advocacy groups such as La Esperanza to determine barriers and opportunities for the expansion of housing opportunities for ESL populations.



Strategy 8.2.5.2 Continue to implement the County's Language Plan.

Objective 8.2.6 Create more opportunities for new types of housing when compatible with surrounding land use and development.

Strategy 8.2.6.1 Review zoning code to determine if modifications are needed to permit new styles of housing such as tiny house or co-housing construction to be developed in the code as they appear.

Goal 8.3: Affirmatively further fair housing choice in the County.

Objective 8.3.1 Ensure that the County's zoning and land use decisions do not discriminate against persons based on race, color, religion, national origin, disability, familial status, sex, creed, marital status, age, or sexual orientation.

Strategy 8.3.1.1 Evaluate current County code on an on-going basis to determine if any regulatory barriers exist that impede the development of multi-family and affordable housing.

Strategy 8.3.1.2 Continue to collaborate with developers through the County Planning Office's pre-submission meetings to support the expansion of affordable housing.

Strategy 8.3.1.3 Promote the use of the DSHA's Areas of Opportunity maps when making land use decisions and identifying housing strategies for different areas of the County.

Strategy 8.3.1.4 Encourage members of appointed boards and commissions, elected officials, and County staff to attend fair housing training.

Strategy 8.3.1.5 Partner with stakeholders to provide training and technical assistance to municipal leaders and others about fair and affordable housing.

Strategy 8.3.1.6 Market available programs such as connection fee deferrals for non-profit affordable housing projects.

Strategy 8.3.1.7 Increase diversity in appointments for land-use boards, commissions, and advisory groups.



Chapter 9. ECONOMIC DEVELOPMENT

<u>Economic Development Vision</u>: To create the conditions for self-sustaining, long-term growth in Sussex County.

9.1 INTRODUCTION

Historically, agriculture and forestry have been the dominant forces in Sussex County's economy. With over \$3.5 billion in total output¹, the agricultural sector continues to be a large component of Sussex County's economy. However, recently the tourism sector has been gaining ground. For example, in 2015, tourism generated over \$1.8 billion in direct tourism sales (Southern Delaware Tourism, 2016). Tourism is concentrated in the eastern part of the County along the coast, while agriculture activities tend to concentrate in the western part of the County. While there are some commonalities between the needs of each industry, they are very different industries. This has led to a dichotomy between the economic development needs of the eastern and western parts of the County.

Sussex County's manufacturing industry continues to diversify. In addition to food manufacturing and processing, major manufacturing sectors include aeronautical, construction, craft brewing/bottling, fabrication and pharmaceutical. Recent developments include Perdue Agribusiness's plans to build corporate offices in Delmar, upgrades to the Allen Harim plant in Harbeson, and one of Sussex County's most iconic brands, Dogfish Head, continuing to expand within in the County.

Sussex County's location, low taxes, temperate weather, and beautiful landscapes have helped to make it an attractive home for new residents. As discussed in the Population and Demographics Chapter, growth in Sussex is outpacing the state and other counties in the region. While the County is growing, it is also getting older as more and more retirees decide to call the County home. As a result, healthcare is exploding in Sussex County. Along with three expanding hospitals, there are extended-care and extended living facilities across the County.

The growing population is also putting pressure on the agriculture sector. As more and more farmland is converted to residential developments, more and more residents are living closer to active agricultural operations and these operations continue to be larger and more productive. This has led to increased conflicts between residents and farmers. The County needs to balance the concerns of residents with needs of one of its most important industries.

There are six key ingredients for economic development – available land, skilled and available labor, high speed internet (fiber optic), natural gas, affordable electricity, and water/sewer. With expansion of the Delaware Coastal Business Park, there will be a number of shovel ready sites with access to natural gas and fiber optic infrastructure. With Del Tech and Sussex Tech, Sussex

¹This includes over \$1 billion in direct agricultural (on-farm) activities, \$2.5 billion in value-added processing and food manufacturing, and over \$30 million in agricultural support activities.



County has the job training infrastructure in place to meet the needs of current and future employers. While the natural gas and fiber optic infrastructure within the County has expanded over the last few years and will continue to expand, the lack of availability in some parts of the County is a hindrance to economic development. Many parts of Sussex County also enjoy access to low cost electricity, which should make the County attractive for large electricity users.

An advantage for Sussex County is its location. The County is within a 2-hour drive of major cities, including Philadelphia, Baltimore and Washington, D.C. – all are less than 100 miles away. Nearly 25 percent of the United States' population is within an eight-hour drive of Sussex County, putting customers and markets easily within reach. From a commercial perspective, Sussex County has the foundation for good transportation infrastructure. Three four-lane highways link Sussex County to regional interstates, including I-95. Local rail lines feed into the Norfolk Southern rail system, with connectivity to the regional CSX network. The Nanticoke River links Sussex County to the Chesapeake Bay. The Delaware Coastal Airport provides connection to number of destinations.

In order to best understand the potential future growth of Sussex County, it is essential to analyze Sussex County's demographic and economic trends, compare them to neighboring counties, and contextualize how Sussex County fits into the larger region. This plan chapter begins with a discussion of Sussex County's two most iconic sectors – agriculture and tourism. It then includes a discussion of the County's economy in general, including some data and statistics on the structure of economy and workforce and background information on economic development resources. The chapter concludes by listing the economic development goals and objectives and offering strategies to achieve the goals.

9.2 AGRICULTURE AND FORESTRY

9.2.1 Agriculture

Agriculture is an important sector for the overall economy of Sussex County and it provides a strong economic foundation. Sussex County is the foremost agricultural county in Delaware. As of 2018, Sussex County has over 277,000 acres of farmland – over 100,000 more acres than Kent County and more than Kent and New Castle Counties combined. The impact of the agricultural sector in the County goes beyond the production and employment that occurs on the farms. It also includes the food manufacturing sector, such as poultry and vegetable processors, and support activities. The agricultural industry has experienced a number of changes in recent years – consolidation of small farms, the introduction of innovative production technologies, changes in consumer demands and tastes, and others. Given the importance of agriculture to Sussex County, it is important to have an understanding of the size of the industry and to look at recent trends in the industry.



All told, the agriculture sector in Sussex County is responsible for over \$3.5 billion in direct economic activity², including over \$1.0 billion in on-farm activities, \$2.5 billion in value-added processing, and over \$30 million in agricultural support industries. The value-added food processing sector accounts for over 72 percent of the total direct economic output of the industry, with animal production accounting for an additional 23 percent and crop production 5 percent. All told, the combined agricultural sector amounts to over 20 percent of the total output of all industries in Sussex County.³ The combined agricultural sector (on-farm production, food processing, and support) directly employs over 9,800 employees and supports over \$400 million in labor income.

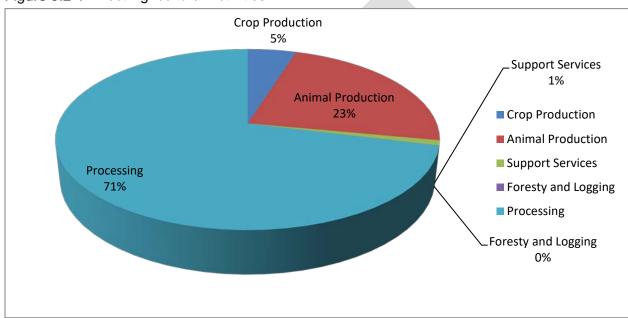


Figure 9.2-1 Direct Agricultural Activities

Source: IMPLAN (2017)

The impact of the agricultural sector in Sussex County goes far beyond the direct impacts described above. The indirect effects measure the effect of the agricultural sector on non-agricultural industries that supply inputs and services used by the agricultural industry. The induced effects measure the impact of expenditures by households that receive income from the agricultural sector either directly or indirectly. A study by the University of Delaware's College of Agriculture and Natural Resources⁴ estimated that the output multiplier for the combined

²The \$3.5 billion is based on analysis of data for Sussex County obtained from the IMPLAN economic modeling system for 2015.

³ Based on data from the IMPLAN economic modeling system, the total output of all industries in Sussex County was \$16.8 billion in 2015.

⁴ Awokuse, 2010.



agricultural sector in Sussex County was \$1.29⁵ – every dollar in direct output supports \$0.29 in indirect and induced impacts with in the County. This results in a total economic impact of \$4.5 billion (\$3.5 billion direct economic output and over \$1.0 billion in indirect and induced economic output). This represents over 27 percent of the economic output of the County.

The employment multiplier for the combined agricultural sector is 1.60 – for every direct job 0.60 indirect and induced jobs are support. All told, the agriculture sector supports nearly 15,700 total jobs. This sector supports over \$640 million in total labor income, which amounts to a labor income multiplier of \$1.61.

The total acres of land in farms have steadily been decreasing over the last 30 years from 343,000 acres in 1982 to 272,000 in 2012, a decrease of over 20 percent. Over the same period, the number of farms⁶ has decreased from 1,841 in 1982 to 1,241 in 2012, a decrease of 34 percent (Figure 9.2-2). This suggests that the trend of consolidation of smaller family farms into larger farm holdings that was witnessed during the 1997 to 2002 period has continued and will likely continue into the near future. However, the remaining farms have become more productive. According to USDA Agricultural Census data, average productivity per farm in Sussex has increased over 70 percent from 1992 to 2012.

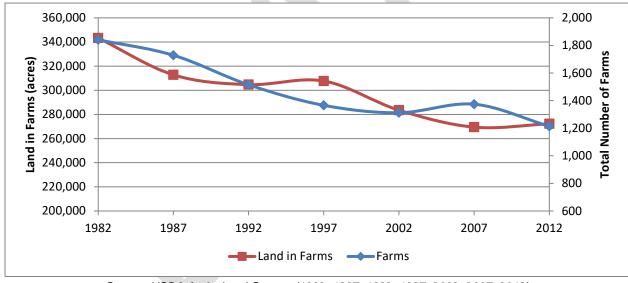


Figure 9.2-2 Total Acres of Land in Farms and Total Number of Farms 1982-2012

Source: USDA Agricultural Census (1982, 1987, 1992, 1997, 2002, 2007, 2012)

⁵ For comparison purposes, the equivalent multiplier for the tourism section is \$1.20 (every dollar of direct spending in the tourism sector generates \$0.20 of additional economic output. The agricultural sector produces \$0.09 of additional economic activity compared to the tourism sector.

⁶ The United States Department of Agriculture's (USDA) Census of Agriculture define a "farm" as any place from which \$1,000 or more of agricultural products were produced and sold in a year. Please see: https://www.agcensus.usda.gov/Publications/2012/Full Report/Volume 1, Chapter 1 US/usv1.pdf for additional information.



Total on-farm agricultural employment has remained relatively flat over the 2001-2015 period; however, there have been some changes in the distribution of employment across agriculture sectors. Employment in crop production has more than doubled, while employment in animal production has declined by nearly 65 percent (Figure 9.2-3).⁷

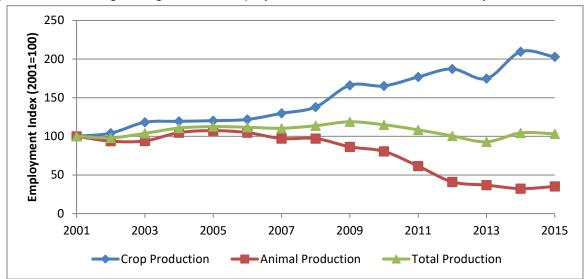


Figure 9.2-3 Change in Agricultural Employment, 2005-2015, Sussex County, DE⁸

Source: Bureau of Labor Statistics (BLS) (2016)

The decrease in employment in the animal production sub-sector has also coincided with a significant increase in the average production per worker. The tremendous gains in efficiency have resulted in fewer producers and farm laborers, working on larger farms, producing more. The gains in production have come through innovations, better technology, application of biological scientific discoveries, and increased productivity (Awokuse, 2010).

As discussed above, the agriculture sector in Sussex County goes beyond the on-farm employment. In order to get a full accounting of the impacts of agriculture, the impact from the processing of agriculture products should also be considered. Employees that work at the poultry and vegetable processing facilities located throughout Sussex County are not counted as agricultural employees but are rather considered part of the Food Manufacturing sector, which falls under the larger manufacturing sector.

In 2015 the total number of manufacturing jobs in Sussex County was 9,652 and the food manufacturing sector accounted for 6,641 (nearly 70 percent) of the manufacturing jobs. Since

⁷ It is important to note that there are many unfilled job vacancies that are not accounted for in Figure 10.2-3.

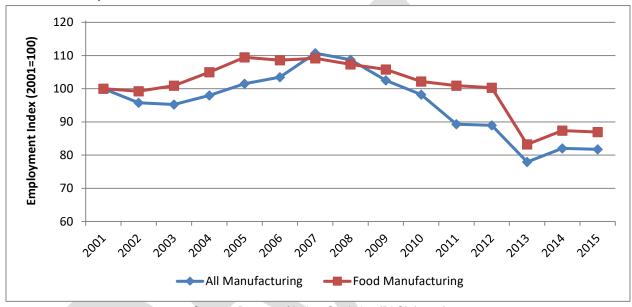
⁸ The data is presented as an index value were 2005 is equal to 100. An index can help visualize industry employment growth year-over-year. An index value of 100 means that the industry has the same amount of employment as it did in 2001, a value over 100 means that employment has increased compared to 2001, and a value of less than 100 means that employment in the sector has declined compared to the base year.



2001, food manufacturing jobs have accounted for an average of 68 percent of manufacturing jobs.

As illustrated in Figure 9.2-4, employment in the food manufacturing sector reached a peak in 2005 and has been declining since. The sector experienced a big decline between 2012 and 2013 as a result of the closing of the Pinnacle Foods plant in Millsboro – by 2013 employment in the sector was 83 percent of the 2001 level. The sector began to recover in 2014 and 2015, although employment is still below its 2001 level – employment in 2015 was at 87 percent of the 2001 level.

Figure 9.2-4 Change in Manufacturing and Food Manufacturing Employment, 2001-2015, Sussex County, DE⁹



Source: Bureau of Labor Statistics (BLS) (2016)

Figure 9.2-5 summarizes the trends in employment for the agricultural production sectors (animal and crop), the food processing sectors, and the total employment in the agricultural sector. Total employment in the combined agricultural sector closely tracks the employment in the food processing sector. This is not surprising when one considers the fact that the food processing sector generates over 70 percent of the output of the sector (Figure 9.2-1). Given the importance of the food processing sector, the County needs to ensure that there is adequate land available for the expansion of the industry and that the necessary infrastructure is available to support the industry, this includes removing unnecessary regulatory and administrative hurdles, the availability of natural gas, electricity, high-speed internet. In addition, the County should evaluate

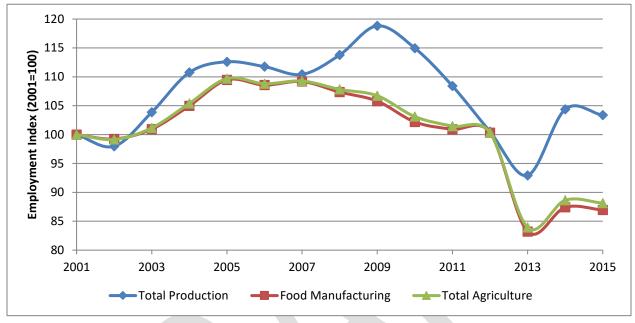
Sussex County Comprehensive Plan

⁹ The data is presented as an index value were 2001 is equal to 100. An index can help visualize industry employment growth year-over-year. An index value of 100 means that the industry has the same amount of employment as it did in 2001, a value over 100 means that employment has increased compared to 2001, and a value of less than 100 means that employment in the sector has declined compared to the base year.



the concept of establishing voluntary agribusiness areas or districts that are centered around existing infrastructure in AR-1 zoning that allow agricultural uses or other compatible uses.

Figure 9.2-5 Change in Total, Food Processing and Agricultural Production Sector Employment, 2001-2015, Sussex County, DE



Source: Bureau of Labor Statistics (BLS) (2016)

The agricultural sector, both production and processing, is highly concentrated in the poultry sector. Although producers of dairy, beef, and pigs exist in the County, over 80 percent of the output of the production sector is related to production of chickens. Similarly, while vegetable and seafood processors also exist, over 83 percent of the output in the food processing sector is related to the poultry processing sector. While the County is ranked number one in the Country for poultry production in 2012, the national dominance of the industry has been declining over time. As illustrated in Figure 9.2-6, the market share of the County has declined from over 4.5 percent in 1982 to 2.1 percent in 2012.



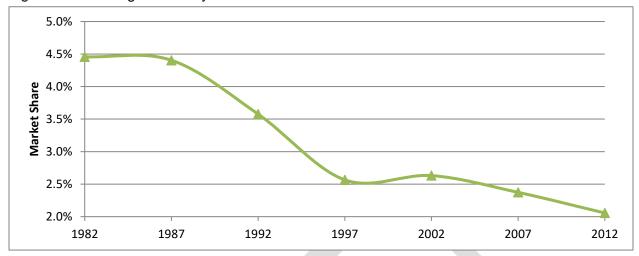


Figure 9.2-6 Change in Poultry Production Market Share 1982-2012

Source: USDA Agricultural Census (1982, 1987, 1992, 1997, 2002, 2007, 2012)

Including both the direct and indirect/induced impacts, the combined agricultural sector is responsible for over 27 percent of the total output of the sector. Given the importance of the poultry sector, in terms of both production activities and processing, the County should take steps to both maintain the health of poultry industry while at the same time taking steps to encourage the diversification of both the production and processing sectors. Taking steps to help diversify both the production and processing sectors will help ensure that the agriculture sector is able to withstand any external shocks to the poultry sector.

Sussex County is also in the top two percent nationally for the value of vegetables sold and is also a key regional leader in the production of soybeans, corn, and wheat. The County needs to ensure that there is adequate land available for the expansion of the industry and that the necessary infrastructure is available to support the industry. In addition, the average age of farmers in Sussex County in 2012 was 58.4 years old. In order to help preserve the sector into the future, County should explore ways to encourage younger people to enter the farming sector.

9.2.2 Forestry

Over the last two decades, significant losses of forestland have occurred in Sussex County. The large loss of Sussex County forestland is one of driving forces behind the net-loss of forests in Delaware (US Forest Service, 2011). It also one of the driving factors in the decline of the forestry sector in the County.

While the forestry industry in Sussex County has never been large¹⁰, the industry is an important sector for the County. The harvesting and processing of forestland produces a stream of income

¹⁰ It is important to note that size of the forestry industry in Sussex County does not meet the minimum disclosure requirements for BLS, which means that there are too few forestry industry establishments and employees to permit the release of data. As such, we are unable to obtain data on the employment of forestry sector in Sussex



shared by timber owners, managers, foresters, loggers, truckers, and processors. A stable robust and diverse market for all forest products contributes to Delaware's economy and helps ensure long term sustainability of the industry. Additionally, income-generating forestland makes it less likely for landowners to convert their forestland to other non-forest uses, such as residential development.

There has been virtually no new investment in (primary) wood processing industries in Delaware. Delaware only has a handful of small sawmills and no paper mills or other solid wood product industries. The number of sawmills in surrounding states that purchase Delaware timber continues to shrink – particularly pine sawmills. In recent years, at least four pine sawmills have closed on the Delmarva Peninsula. This has produced a dramatic decrease in timber demand from Delaware in general, and Sussex County in particular.

The loss of processing facilities makes it harder for landowners to find markets for their timber. Currently Delaware sawmills only process about six percent of industrial roundwood harvested in the state. Out-of-state pulp mills receive more than half of the total industrial roundwood harvested in Delaware. There may be an opportunity and sufficient timber to open a new roundwood processing facility Sussex County (Delaware Forest Service, 2010). Bio-energy is a developing market that could provide new demand for low-quality hardwoods, but Delaware's existing incinerator law severely restricts the use of wood for bioenergy purposes. The additional processing capacity in Sussex County will make it more viable for landowners to sell their timber and will also allow the County to capture the processing jobs and economic value that is currently going to other states.

The price of wood is another limiting factor to growth of the forestry sector in Sussex County. As such, sawmills and wood processing facilities will likely require some type of economic incentives, such as tax breaks, subsidies, or other incentives, in order to be economically viable.

9.3 TOURISM

Rehoboth Beach is commonly known as the "Nation's Summer Capital." Tourists to Sussex County spent \$1.8 billion in 2015, an increase of over 4.2 percent from 2014 (Southern Delaware Tourism, 2016). The tourism sector in Sussex County employed over 19,000 individuals in 2015, the most recent year for which data is available. Employment in the sector has increased over 37 percent between 2003 and 2015.

Tourism spending in Sussex County has a multiplier effect of 2.2 which means that for every dollar spent directly by a visitor, it generates \$1.20 in additional economic activity in the local economy (Southern Delaware Tourism, 2016). In 2015, this resulted in \$2.16 billion in additional economic activity.

County either currently or overtime. However, IMPLAN estimates the size of commercial logging industry at 30 employees and sawmill employment at 14.



While the beaches are probably the biggest draw for tourists to Sussex County, they are not the only tourist attraction that the County has. Given the size of the agriculture industry, there is a large potential for agri-tourism in the County. This will help draw tourists to the County during the off-season and also provide farms as well as tourism related business (restaurants and hotels) with additional sources of revenue. The popularity and national recognition of Dog Fish Head Brewery is another tourist resource that Delaware can capitalize on.

In addition to generating economic activity, tourism has the potential to generate additional catalytic impacts. Tourism marketing drives broader economic growth by sustaining air service, creating familiarity, attracting decision makers, and improving the quality of life in a place. As a result, cities and states that prioritize destination marketing and coordinate these efforts with economic development initiatives have experienced significant site relocations and new investments as a direct result. Research has found that a 10 percent increase in a destination's visitor-related employment relative to the U.S. average tends to be followed by a 1.5 percent rise in broader employment in the short-run (Oxford Economics, 2014).

Destination marketing and promotion should be prioritized in light of the substantial dividends that it is capable of producing. Indeed, there may be few other investments which are capable of yielding such a broad set of impacts. Given the size, growth, and catalytic benefits of destination promotion, the further development of the leisure tourism market in the County should be a priority.

Sussex County needs to develop a brand that appeals to both visitors and investors. The County's destination marketing organization (DMO), *Southern Delaware Tourism*, should work together with the County Economic Development Office and County officials to ensure that the Excite Sussex campaign and the efforts of the DMO complement each other. This would include the creation of the shared brand message and the communication of the brand through all channels of sales and marketing. This will provide consistency across the various organizations that are marketing the County (both economic development and tourism) and over time will likely produce the strongest results.

In addition, given the importance of a destination's characteristic to decision making of investors and site selection professionals, working with the DMO will help the Economic Development Office to strengthen economic development pitches by providing marketing content and experiences to visitors.

9.4 ECONOMIC BASE AND EMPLOYMENT

It is important to understand the types of businesses and industries in Sussex County that have prospered, are currently prospering, and are most likely to prosper in the future. This requires an understanding of the structure of the County economy and its strengths and weaknesses.

Sussex County's early industry and commerce were centered on agriculture and livestock. The local economy expanded due to the introduction of the railroads, which helped the development of inter-state trade and the local tourism industry.



Recently there has been significant private sector business investment in the County. This includes investments by the agricultural sector, such as the decision by Perdue Agribusiness to move their headquarters to Delmar. Investments by the private sector include the investment by Dogfish Head brewery in a new distribution center in Milton. By far the largest investments in Sussex County have been in the healthcare sector. This includes investments by Bayhealth in a new health campus in Milford; by Beebe Health in Lewes, and the expansion of the Peninsula Regional Medical Center in Millsboro, as well as other investments. All told, the over a billion-dollar investment in healthcare facilities will create hundreds of new healthcare sector employment opportunities.

9.4.1 Employment Trends

Over the last 45 years, the total number of jobs in Sussex County has grown steadily. The economy began to take off in the 1980's and growth slowed beginning in the mid-2000's. The County recently returned to strong growth as of 2015 (see Figure 9.4-1). As compared to statewide and national trends, Sussex County's employment has grown at a faster rate, particularly since 2000 (see Figure 9.4-2). It is important to note that these job counts include both full time and part-time workers and are not comparable to the employment by industry discussed later in this section.



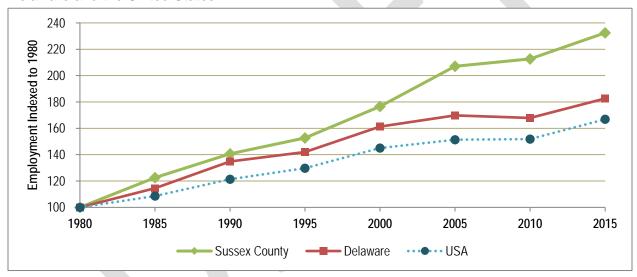


108,233 99,034 96,443 82,250 71.072 65,465 57,048 46,558 44,291 41,532 1970 1975 1980 1985 1990 1995 2000 2005 2010 2015

Figure 9.4-1 Total Jobs in Sussex County, DE, 1970 to 2015

Source: Bureau of Economic Analysis (2016)

Figure 9.4-2 Indexed Job Growth from 1980 to 2015, Sussex County Compared to the State of Delaware and the United States



Source: US Bureau of Labor Statistics (2016)

Since 1990, Sussex County's unemployment has generally fallen below both the rate of the entire United States and the State of Delaware. In 2010 the unemployment rate in Sussex County was 8.5 percent, well below the national level of 9.6 percent and on-par with the state. The County's unemployment rate has fallen steadily since 2010, in line with national and state-wide trends.

9.4.2 Employment by Industry

Currently, the largest employment sector in the County is leisure and hospitality, followed by retail trade, education and healthcare, and manufacturing (see Table 9.4-1). The leisure and hospitality sector has experienced strong growth of over 5 percent per year from 2010 to 2016, while the education and health care sector has grown nearly 4 percent per year. Professional, business and IT services have also had strong growth over 2010 to 2016, growing nearly 6 percent per



year over this period. Several industries have contracted since 2010, including finance, insurance, and real estate and manufacturing. Overall, Sussex County's employment grew at nearly 2 percent per year from 2010 to 2016.

Table 9.4-1 Employment by Industry Sector, Sussex County, DE						
INDUSTRY SECTOR	TOTAL JOBS				CAGR ¹²	
	2001	2005	2010	2016	2005-	2010-16
					10	
Manufacturing	11,858	11,989	11,601	9,765	(0.5%)	(2.8%)
Retail Trade	10,657	11,217	11,537	12,427	0.5%	1.2%
Leisure and Hospitality	7,934	9,498	10,330	14,125	1.4%	5.4%
Education and Healthcare	6,593	7,943	9,207	11,604	2.5%	3.9%
Public Administration	6,053	7,022	7,979	8,592	2.2%	1.2%
Construction	4,705	6,291	3,758	4,514	(8.2%)	3.1%
Professional, Business, and IT Services	4,455	4,991	4,792	6,752	(0.7%)	5.9%
FIRE (Finance, Insurance, Real Estate)	4,238	4,679	3,941	3,198	(2.8%)	(3.4%)
Other Services	1,826	2,318	2,185	2,499	(1.0%)	2.3%
Transportation, Warehousing, Wholesale	2,342	2,834	2,617	3,299	(1.3%)	3.9%
Trade						
Utilities	204	288	372	339	5.25%	-1.84%
Farm Employment	2,042	1,666	1,642	n/a	(0.2%)	n/a
Total	63,950	71,582	70,780	77,988	(0.2%)	1.6%

Source: State of Delaware Department of Labor (2016)

An index can help visualize industry employment growth year-over-year beginning in 2001 through 2016. An index value of 100 means that the industry has the same amount of employment as it did in 2001, a value over 100 means that employment has increased compared to 2001, and a value of less than 100 means that employment in the sector has declined compared to 2001 (see Figure 9.4-3). Looking back to 2001, Sussex County employment has increased in most of the industry sectors with the exception of housing-related industries (finance, insurance, and real estate and construction) and other goods producing industries such as farming, manufacturing, and natural resources and utilities.

Sussex County Comprehensive Plan

¹² Compound Average Growth Rate (CAGR) The compound annual growth rate (CAGR) is the mean annual growth rate over a specified period of time. It essentially describes the rate at which an employment would have grown if it had grown at a steady rate.



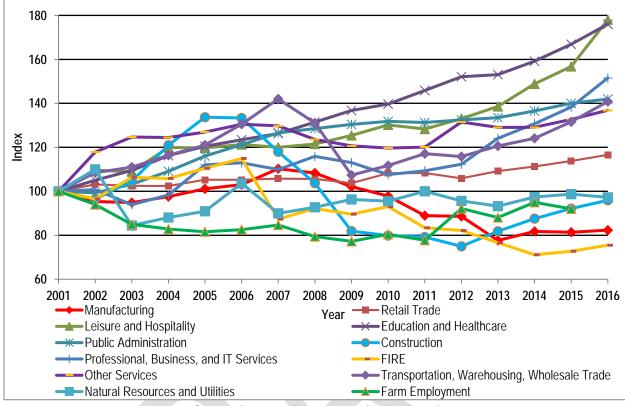


Figure 9.4-3 Sussex County Industry Employment Index

Source: Delaware Department of Labor (2016)

The County's economy is still heavily reliant on the agriculture and food industry; many of the largest employers in Sussex County are in the agriculture and food processing industry, including Mountaire Farms, Allen Harim Foods LLC, Dogfish Head Brewery and Perdue Farms. Today, the fastest growing sectors of the economy are healthcare, agriculture/food processing, and manufacturing. See Table 9.4-2 for a full list of Sussex County's top employers.



Table 9.4-2 Top Sussex County Employers				
Employer	Location	Industry		
Allen Harim Foods LLC	Seaford, Harbeson	Agriculture/Food Processing		
Aloft Aero Architects	Georgetown	Manufacturing		
Avalanche Industries	Selbyville	Communications		
Bayhealth Milford Memorial	Milford	Healthcare		
Beebe Healthcare	Lewes	Healthcare		
Burris Logistics	Milford	Logistics		
Cheer, Inc.	Georgetown	Healthcare		
Delaware Electrical Cooperative	Greenwood	Electric Utility		
Delaware Technical & Community College	Georgetown	Education		
Dogfish Head Brewery	Milton	Agriculture/Food Processing		
Genesis Healthcare	Multiple	Healthcare		
Indian River School District	Selbyville	Education		
INVISTA	Seaford	Manufacturing		
M&T Bank/Wilmington Trust	Multiple	Banking Services		
Merck Animal Health	Millsboro	Poultry Chemicals		
Mountaire Farms	Millsboro, Selbyville	Agriculture/Food Processing		
Nanticoke Memorial Hospital	Seaford	Healthcare		
NRG Energy Center	Dagsboro	Electric Utility		
Perdue Farms (Perdue Foods and Perdue	Seaford Agriculture/Food Proc			
Agribusiness)				
Schell Brothers	Rehoboth Beach	Home Builder		
SoDel Concepts	Multiple	Leisure & Hospitality		
State of Delaware	Multiple	State Government		
Sussex County	Multiple	County Government		
Trinity Logistics	Seaford	Logistics		
Walmart	Multiple	Retail		

Source: Delaware Business Times (2016)

Note that data on number of employees per employer is not available.

9.4.3 Employment Projections

The Delaware Department of Labor projects that over the 2014 to 2024 period, total employment in the County will increase by approximately 8,250 jobs. The compound annual growth rate of 1.1 percent (Table 9.4-3) is significantly lower than the compound annual growth rate that occurred over the 2010 to 2016 period, where growth occurred at a rate of 1.6 percent per year. All sectors are projected to increase employment. The sectors that will see the largest growth in terms of absolute number of employees as well as average annual growth include education and healthcare, leisure and hospitality, construction, retail trade, and professional, business and IT services. The large projected growth in healthcare and leisure and hospitality suggests that shift that has occurred in the County towards healthcare and tourism will continue into the future.



Table 9.4-3 Projected Employment Growth 2014-2024 by Industry Sector					
	2014	2024	CHANGE	CAGR	
Manufacturing	9,700	9,870	170	0.2%	
Retail Trade	11,860	12,920	1,060	0.9%	
Leisure and Hospitality	11,810	13,290	1,480	1.2%	
Education and Healthcare	15,820	18,650	2,830	1.7%	
Public Administration	2,120	2,290	170	0.8%	
Construction	4,120	5,040	920	2.0%	
Professional, Business, and IT Services	5,340	5,920	580	1.0%	
FIRE (Finance, Insurance, Real Estate)	3,500	3,880	380	1.0%	
Other Services	4,330	4,730	400	0.9%	
Transportation, Warehousing, Wholesale					
Trade	2,380	2,630	250	1.0%	
Utilities	350	360	10	0.3%	
Total	71,330	79,580	8,250	1.1%	

Source: State of Delaware Department of Labor (2017)

Figure 9.4-4 compares the projected employment growth in Sussex County to statewide projected employment growth. Employment growth in Sussex County is projected to average 1.1 percent over the 2014 to 2024 period, while statewide is only expect to growth at an average rate of 0.80 percent. Similar to Sussex County, statewide all sectors are projected to increase with construction, transportation and warehousing, tourism, and professional and business service sectors in Sussex County projected to grow at a significantly faster rate than the state as a whole. The difference is manufacturing – in Sussex County manufacturing employment is projected to grow by 0.2 percent, while statewide manufacturing employment is expected to contract by 0.2 percent. Sussex County's manufacturing growth will be driven by food manufacturing, which is expected to add 250 jobs over the next ten years, followed by transportation equipment manufacturing (150 jobs), and beverage manufacturing (40 jobs). The forecasted growth in the manufacturing sector is reversing the contraction that has been occurring in the sector over the 2001-2016 period.



2.5%
2.0%
1.5%
1.0%
0.5%
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Figure 9.4-4 Sussex County and Statewide Projected Employment Growth 2014-2024 by Industry

Source: State of Delaware Department of Labor (2016)

9.4.4 Sussex County Workforce

9.4.4.1 Key Workforce Demographics

There are several key demographic indicators useful for understanding the quality of Sussex County's workforce. This includes population projections of important age cohorts, educational attainment, poverty levels, and access to personal automobile.

Beginning with gross population numbers of permanent Sussex County residents projected by the Delaware Population Consortium, the total volume of key population cohorts is growing from 2010 through 2050. The 0-to-19-year-old population group will grow approximately 30 percent over the 40-year period, from 44,000 in 2010 to 57,000 in 2050, a compounded annual growth rate of approximately 0.6 percent over the period. The next relevant age cohort, those between the ages of 20 and 34, will increase by 30 percent as well, from 31,000 in 2010 to 40,000 in 2050 with a compounded annual growth rate of 0.7 percent over the 40-year period. The older, retiree population of those 65-years and older will grow much more significantly in the next few decades. From 2010 to 2035, this cohort grows at a rate of 2.7 percent per year, beginning in 2010 with 41,000 and landing in 2035 with 81,000 people. It is forecasted that this population will experience negative growth after 2035, ending 2050 with 77,000 individuals. See Figure 9.4-5 for additional detail.



The slow growth of the younger age-cohorts (0-19 year olds and 20-34 year olds) indicates that the County needs to work with local businesses and schools to develop employment opportunities to help retain and grow the millennial population.

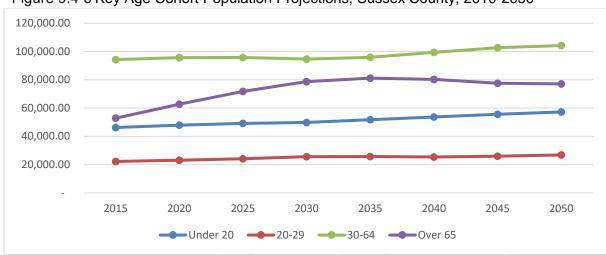


Figure 9.4-5 Key Age Cohort Population Projections, Sussex County, 2010-2050

Source: Delaware Population Consortium (2016)

The type of work to be found in manufacturing plants and business organizations requires, and will continue to require, skills and knowledge beyond those acquired in high school. Over half of Sussex County's population has a High School Diploma or did not graduate from high school. This is comparable with neighboring counties. Twenty-two percent of Sussex County residents have a Bachelor's Degree or higher, higher than Caroline County's 12 percent but lower than Wicomico and Worcester Counties' 28 percent.

Another factor that affects workforce preparedness is access to a car. In counties like Sussex with limited public transportation options, access to a car is one of the main determinants of what jobs an individual can accept. According to the most recent data from the Census American Community Survey, four percent of the households in Sussex County lack access to an automobile. This is the lowest value as compared to neighboring counties, which generally have between six to seven percent of households without access to a car. Although nearly all households in Sussex County have access to a car, this does not mean that every member of the household has equal access to a car to get to work (Figure 9.4-6). Due to the current lack of comprehensive public transportation options in the County, this likely means that it may be difficult for some individuals to access employment opportunities. More information about public transportation in Sussex County can be found in the Mobility Chapter.



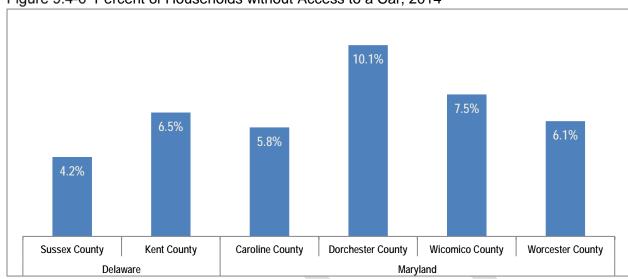


Figure 9.4-6 Percent of Households without Access to a Car, 2014

Source: US Census Bureau (2016)

Individuals at lower income levels are more likely to lack the relevant skills for many of today's job opportunities. There tends to be significant gaps in student achievement and educational attainment between income levels, with students from lower income families typically lagging behind their peers. In Sussex County, this is a concern despite the fact that only approximately nine percent of the population of the County is below the poverty line. ¹³ Of the neighboring counties, Worcester County is lower at seven percent, and other counties are higher with Dorchester County the highest at twelve percent (see Figure 9.4-7).

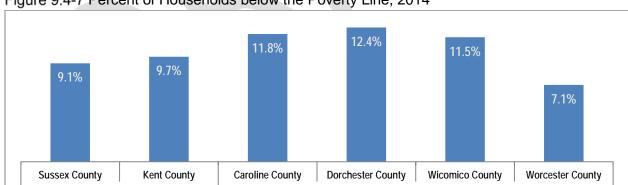


Figure 9.4-7 Percent of Households below the Poverty Line, 2014

Source: US Census Bureau (2016)

In addition to examining the percent of the population living under the poverty line, it is useful to understand the total distribution of the population living at all income levels. As illustrated in Figure

¹³ The poverty-level varies by family size and composition. For example, for a family of four with two children, the poverty level is \$24,339. See https://www.census.gov/data/tables/time-series/demo/income-poverty/historical-poverty-thresholds.html for additional information.



10.4-8, twenty-one percent of the **households** in Sussex County have a **household income** of less than \$25,000 per year. Many of these households, while not all in poverty based on the government's definition, are likely to experience many of the same negative impacts as those individuals below the official line. More information on affordable housing is contained in the Housing Chapter.

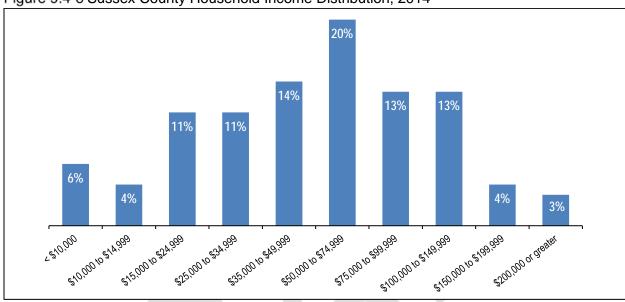


Figure 9.4-8 Sussex County Household Income Distribution, 2014

Source: US Census Bureau (2016)

9.4.4.2 Commuting Patterns

The location of an individual's residence relative to where they work can have implications for economic development. For example, studies have shown that long daily commutes can make it more difficult to attract and maintain a reliable workforce and decreases employee productivity. In 2014, over 40 percent of the employed individuals living in Sussex County commuted out of the County for work, similar to many neighboring counties. This portion of the workforce was generally similar in 2005. All other neighboring counties saw a much larger share of their workforce commuting outside of the home county from 2005 to 2014. Caroline and Dorchester Counties in Maryland had three-quarters and two-thirds of workers commuting out of home county, respectively.

Employed residents of Sussex County traveled approximately 25 minutes to work on average, one way in 2014. Compared to neighboring counties, this amount is right in the middle, with employed residents of Wicomico County, Maryland traveling 22 minutes each way and residents of Caroline County, Maryland traveling nearly 34 minutes per way. The length of commutes for nearly all counties increased by a few minutes from 2000 to 2014.

For the nearly 40 percent of employed residents who work outside of Sussex County, the majority travel to other counties in Delaware and Maryland. Nearly 25 percent of employed individuals in



Sussex County commuted to another Delaware county, with 13 percent traveling to Kent County and 10 percent traveling to New Castle County. The remaining 20 percent commuted to one of the neighboring out of state counties, including Wicomico County, MD (5 percent), Worcester County, MD (3 percent), Dorchester County, MD (1 percent), and Caroline County, MD (1 percent), and 10 percent to other counties.

Sussex County had the lowest percentage of out-of-county residents holding jobs in Sussex County compared to neighboring counties. Thirty percent of workers in Sussex County live outside of Sussex County, down from 34 percent in 2005. Caroline and Dorchester Counties in Maryland have over 50 percent of their workforces living outside of those counties. Out of the 30 percent from outside Sussex County, 10 percent live in Kent County, 4 percent live in New Castle County, and 4 percent live in Wicomico County. The remaining 10 percent live in other counties in Maryland.

9.4.4.3 Sussex County Occupation Clusters

Occupation cluster analysis can offer insights into the talent base of the workforce that go beyond the relatively simple measure of educational attainment. In contrast to industry clusters that focus on what businesses produce, occupation clusters focus on the knowledge, skills, and abilities of the individuals who work for those businesses. Analysis can help identify which clusters of occupations provide the best opportunities for investment to build different types of skills, supporting existing and emerging industry clusters, and which occupation clusters represent a competitive advantage for the region.

As seen in Table 9.4-4, from 2001-2010, job growth occurred in all of the major occupation clusters in Sussex County except for agribusiness and food technology, public safety and domestic security, skilled production workers, engineering and related sciences, and natural sciences and environmental management. The postsecondary education and knowledge creation cluster has had the largest increase in employment, with employment in the cluster increasing approximately 78 percent from 2001 to 2010. The largest occupation cluster in terms of employment is skilled production workers followed by legal and financial services, and real estate. The managerial, sales, marketing, and human resources occupation cluster also has a large employment base in Sussex County.

Twelve occupation clusters showed job growth of 10 percent or more over the 2001-2010 period. In addition, many of these clusters also had a related rise in the size of the location quotient (an indicator of industry concentration within a region), which suggests that in addition to increasing in local importance, the competitiveness of the County is also increasing in these clusters. These are occupations that are not yet specialized (LQ < 1.2), but are increasing in specialization and include: arts, entertainment, publishing and broadcasting; postsecondary education and knowledge creation; legal and financial services, and real estate; information technology; health care – medical technicians; personal services occupations; mathematics, statistics, data and accounting; health care – therapy, counseling and rehabilitation; managerial sales, marketing and HR; building, landscape and construction design; and technology–based knowledge clusters.



A surprising finding is that a number of technology-related occupation clusters have enjoyed a significant increase in both employment and competitive position in Sussex County. These include information technology; mathematics, statistics, data, and accounting; and technology-based knowledge clusters. ¹⁴ Major occupations within some of these clusters include computer software engineers, data communications analysts, and support specialists. It is possible that these emerging occupation clusters are related to the presence of tech schools in the County.

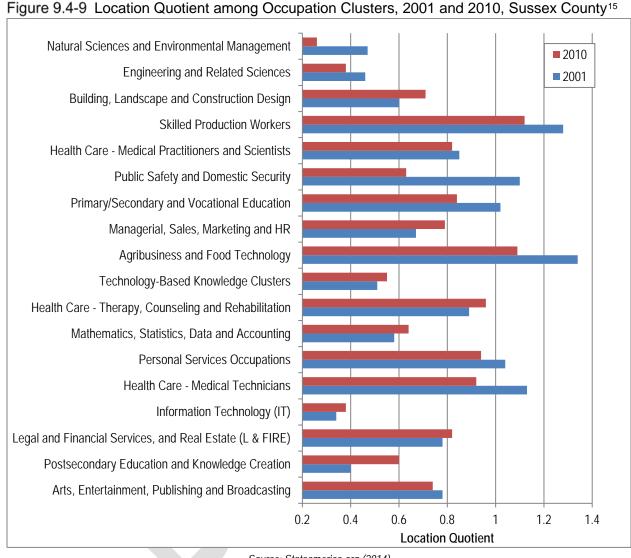
Table 9.4-4 Sussex County Occupation Clusters					
OCCUPATION CLUSTER		EMPLOYMEN	ΙΤ	SHARE OF	
	TOTAL GROWTH, 2001-2010		ALL		
	2010	ABSOLUTE	PERCENT	REGIONAL EMPLOYMENT	
Skilled Production Workers	7,657	-257	-3.2%	7.8%	
Legal and Financial Services, and Real Estate (L & FIRE)	6,288	1,350	27.3%	6.4%	
Managerial, Sales, Marketing and HR	6,007	1,473	32.5%	6.1%	
Primary/Secondary and Vocational Education	4,334	154	3.7%	4.4%	
Technology-Based Knowledge Clusters	4,252	747	21.3%	4.3%	
Health Care -Therapy, Counseling and Rehabilitation	3,135	1,054	50.6%	3.2%	
Personal Services Occupations	2,227	656	41.8%	2.3%	
Arts, Entertainment, Publishing and Broadcasting	1,691	443	35.5%	1.7%	
Agribusiness and Food Technology	1,622	-140	-7.9%	1.7%	
Mathematics, Statistics, Data and Accounting	1,537	377	32.5%	1.6%	
Health Care - Medical Technicians	1,079	159	17.3%	1.1%	
Health Care - Medical Practitioners and Scientists	893	82	10.1%	0.9%	
Information Technology (IT)	752	177	30.8%	0.8%	
Public Safety and Domestic Security	733	-267	-26.7%	0.7%	
Postsecondary Education and Knowledge Creation	665	292	78.3%	0.7%	
Engineering and Related Sciences	336	-80	-19.2%	0.3%	
Building, Landscape and Construction Design	309	64	26.1%	0.3%	
Natural Sciences and Environmental Management	69	-101	-59.4%	0.1%	

Source: Statsamerica.org (2014)

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¹⁴ Please see: https://www.statsamerica.org/innovation/reports/sections2/H.pdf for information on the occupations included in each knowledge cluster.





Source: Statsamerica.org (2014)

At the same time, the County has lost some of its competitive advantage in the healthcare occupation cluster. While the number of employees in each of the three healthcare sub-clusters

¹⁵ A location quotient is expressed as the ratio of the proportion of the industry locally within the total local economy to the proportion of the industry nationally within the total national economy. It can help reveal in what industries a region may have a competitive advantage. Therefore, an LQ greater than one indicates that the industry has a competitive advantage. Conversely, an LQ less than one indicates that the industry is a smaller piece



(Medical Practitioners and Scientists; Medical Technicians; and Therapy, Counseling, and Rehabilitation) have increased, the location quotients for two of the sub-clusters have decreased over the 2001-2010 period. These occupation clusters merit a closer look by policymakers, economic development professionals, representatives from the Community College, and medical and related professionals to discern needs for expanded training and development of the skills embedded in the clusters. The County also needs to identify ways that it could leverage its concentration of medical skills as well as the large biomedical industry cluster in Delaware. For example, it could aim for a specialization in geriatrics and nursing homes or other specialized nursing facilities. Such potential strategies need to be worked out by the economic development stakeholders with significant input from the medical and related professionals in the County.

9.5 ECONOMIC DEVELOPMENT RESOURCES

There are several public economic development agencies tasked with encouraging business development in Delaware. These include:

- **Delaware Prosperity Partnership** This public-private partnership, newly formed in 2017, will be responsible for recruiting new employers to the state, promoting entrepreneurship and innovation, and investing in workforce development programs.
- Delaware Manufacturing Extension Partnership This group helps manufacturers better compete on the global scale by working with them to assess opportunities, identify resources, and by providing them with confidential access to the industries' best practices and methodologies.
- **Delaware Department of Labor** Working with employees and employers, the Department of Labor connects people to jobs, resources, benefits, protections, and information to promote an equitable labor environment.
- **Division of Corporations** This division provides answers and assistance to corporations looking to make Delaware their legal home.
- Small Business Development Center (SBDC) This public-private partnership between the U.S. Small Business Administration, the State of Delaware, and the University Delaware provides no or low-cost advisory and training services.

of the local economy than it is of the national economy and indicates an area where the local economy is not as strong.



 Service Corps of Retired Executives (SCORE) – Retired company executives and business owners who have partnered with the U.S. Small Business Administration provide free and confidential business counseling.

Furthermore, while businesses in Delaware can always participate in federal business assistance programs for which they are eligible, the state of Delaware also offers its own variety of incentive programs to firms seeking to relocate to or otherwise expand within Delaware. This assistance may take the form of loan programs, grants, tax credits, and tax incentives. The most prominent programs include:

- New Business Facility Tax Credit This credit allows businesses that hire fifty or more
 qualified employees to make an investment of at least \$200,000 and operate a qualified
 facility to reduce their corporate income tax, gross receipts tax, and public utility tax.
- New Economy Jobs Tax Credit This credit allows employers that create a minimum of 50 jobs to obtain up to a 65% rebate on the withholding taxes for their new Delaware taxpayers.
- Business Finder's Fee Tax Credit This program incentivizes Delaware businesses to bring their suppliers, customers, and other businesses to Delaware. The credit, which can be applied to both the existing Delaware business and the new relocating business, is equal to \$500 per full-time Delaware employee that the new business employs in Delaware for three years following their registration.
- Research and Development Tax Credit Qualified businesses can receive a tax credit
 equal to 10 percent of the excess of the taxpayer's total Delaware qualified research and
 development expenses for the taxable year over the taxpayer's Delaware base amount,
 limited to 50 percent of the Delaware income tax liability.
- **Delaware Strategic Fund** This fund is the primary source through which Delaware provides low-interest loans and grants to businesses that are creating new jobs, relocating, expanding, or redeveloping a brownfield site.

Within Sussex County, there are also two economic development agencies that encourage business growth specifically within the County. These include:

Sussex County Economic Development Office – Much like the state's economic
development office, Sussex's economic development office strives to attract, retain, and
expand businesses and business opportunities within the County through counseling,
networking, and financial incentives.



• Sussex Economic Development Action Committee, Inc. (SEDAC) – This stand-alone group connects businesses and entrepreneurs with the resources they need.

In addition, the Sussex County Economic Development Office runs two specific initiatives that seek to assist businesses relocating or expanding in the County. The County's Economic Development Fund provides financial assistance in the form of low interest loans; grants, graduated tax abatement, and/or fee reductions to selected businesses in need of financial assistance. Much like the Delaware Strategic Fund, this assistance is customized to fit selected firms' needs. Additionally, Sussex County is a partner in the Delaware State Housing Authority's Downtown Development District program. Sussex County performs a 50 percent match of state funds for approved construction projects in Sussex County up to \$10,000. The County will contribute up to \$100,000 in matching funds in FY2017.

The County's Economic Development Office is also working on new initiatives to attract business to Sussex. One initiative that the office would like to explore is the establishment of a County Economic Development Grid. The grid would contain zones which would be centered around areas of the County and associated communities where the County would like to promote economic development. As part of the effort, the County would explore incentives for businesses locating in the zones. In order for the effort to be successful, it will require close coordination with communities in the areas where zones would be established.

There are many other private and non-profit groups besides those listed above which are dedicated to helping Delaware businesses succeed. For example, the numerous Chambers of Commerce spread throughout the state, the University of Delaware's Lerner College of Business & Economics, and the Delaware Community Development Corporation all offer business assistance.

9.5.1 Industrial Parks and Business Parks

In Sussex County, there are currently four industrial or business parks, some of which are located in the towns and others in unincorporated areas. These locations spur investment in the community by using a range of amenities, resources, business connections, and financial incentives to attract stable businesses. Each park has its own particular characteristics:

- Seaford Industrial Park (Seaford, DE) This 128-acre industrial park is occupied almost
 exclusively by light industrial firms including Con-way trucking, Cintas uniforms, Century
 Window Fashion, Craig Technologies, and Eastern Shore Metals. The City of Seaford has
 one remaining two-acre parcel still under its ownership. Seaford Industrial Park is adjacent
 to the Ross Business Park, both of which have convenient access to Route 13.
- Ross Business Park (Seaford, DE) Accommodating a wider range of businesses than Seaford Industrial Park, the Ross Business Park currently has more than 108 acres of available parcels after greatly expanding a few years ago. Its current tenants include SolarCity, Falco Industries, Dunbar Armored, K Supply Company, and FedEx Ground. It



also borders important local destinations such as the Seaford Sports Complex, the Seaford District Library, the Ross Mansion, and the Boys & Girls Club of Delaware.

• Delaware Coastal Business Park (Georgetown, DE) - With 19 parcels spread over 175 acres the industrial park is an important component of the Delaware Coastal Airport's operations. In fact, the park's largest tenant is ALOFT AeroArchitects who performs maintenance on the Boeing 737. The park also houses Pats Aircraft, Eastern Shore Poultry Co. Inc., Hollingsead International, Delmarva Insulation, DMI, and other large businesses. In addition to quick access to Route 9, the park is also connected to the local railroad system.

In March 2017, the County acquired the 74-acre King Farm site to expand the Delaware Coastal Business Park. The site will yield approximately 12 lots over 20 useable acres.

Selbyville Industrial Park (Selbyville, DE) - At 35 acres, the 17-lot Selbyville Industrial
Park is the smallest park in Sussex County. Its largest tenant is currently Avalanche
Strategies, but the park is also home to Sigma Realty, Eastern Shore Porch and Patio,
Delta Sales Corporation, Aero Safety, Chrome World Motorcycle Accessories, and
Resorts Furnishings. There are no current vacancies or plans for expansion given that it
borders the Delaware-Maryland state border, Route 113, and downtown Selbyville.

Ross
Business Park

Industrial Park

Seaford

Industrial Park

Sussex County

Sussex County

Business Park

Industrial Park

Sussex County

Figure 9.5-1 Industrial and Business Parks in Sussex County, DE

Source: ESI (2017), Google (2017)

While there are vacancies in some of these business and industrial parks that should continually be marketed to new employers, the County should also continue to look for new business and industrial sites attractive to businesses looking to locate to the County. Sites that will be most attractive to new businesses are those that have access to utilities (natural gas, fiber optic, etc.) as well as low electric rates.



9.6 ECONOMIC DEVELOPMENT GOALS, OBJECTIVES, AND STRATEGIES

As the population of Sussex grows, sustaining and growing the economy is important to support the commerce, culture, and character of the County that residents and visitors enjoy. The County must embark on strategies to continue to make the County both an attractive home for new businesses as well as help existing businesses and industries grow and prosper. Below is a list of goals, objectives, and strategies for the County to undertake to achieve this:

Goal 9.1: Maintain and strengthen the economic base in the County.

Objective 9.1.1: Develop a better understanding of Sussex County's competitive advantages and how it fits into the regional and national marketplace.

Strategy 9.1.1.1: Undertake a supply chain analysis of key local industries to identify target industries and employers for recruitment.

Strategy 9.1.1.2: Undertake a business cost analysis to understand how the County compares to other locations.

Objective 9.1.2: Establish, maintain, and anticipate the necessary infrastructure including, but not limited to housing and transportation, communication technology (high-speed internet, utility systems) which supports and fosters quality development for those who live, work, visit, and invest in the County.

Strategy 9.1.2.1: Complete the long-term capital improvements planned for Sussex County's airport.

Strategy 9.1.2.2: Promote the proximity of the airport to clientele that would use the airport.

Strategy 9.1.2.3: Work to increase operations (take-offs and landings) at the airport in order to qualify for additional funding from the Federal Aviation Administration.

Strategy 9.1.2.4: The Economic Development Office will work with natural gas utilities and high-speed internet (fiber optic) providers to help identify potential areas for expansion, identify potential customers, undertake outreach to potential customers, and develop strategies to meet the needs of underserved areas.

Strategy 9.1.2.5: Coordinate infrastructure (water, sewer, transportation, natural gas, electricity, and high-speed internet) projects with the need to bring these utilities to areas zoned for business uses.



- **Strategy 9.1.2.6:** Explore and pursue grant opportunities for fiber optic expansion within the County.
- **Strategy 9.1.2.7:** Continue coordinating with DelDOT to provide safe and convenient road access for areas zoned for business uses.
- **Strategy 9.1.2.8:** Encourage redevelopment and reuse of existing business sites, industrial sites, and central business districts. These sites are already well served by the necessary infrastructure and have good access.
- **Objective 9.1.3:** Weave economic development into the County's entire decision-making process.
 - **Strategy 9.1.3.1:** Consider an analysis of County and local regulations to identify those regulations that may be inhibiting economic development.
 - **Strategy 9.1.3.2:** Consider additional coordination between the State and County on economic development efforts.
 - **Strategy 9.1.3.3:** Undertake a comprehensive examination of the economic development process in the County and identify potential areas for streamlining.
 - **Strategy 9.1.3.4:** Strengthen the County's Economic Development Office and ensure that the office has the necessary resources.
 - **Strategy 9.1.3.5:** The County Council should take an active leadership role to ensure that all County departments are supporting economic development and working toward common goals.
 - **Strategy 9.1.3.6:** Strengthen the relationship between the County and various economic development organizations, like the Sussex Economic Development Action Committee.
- **Objective 9.1.4:** Support small local businesses and County-based industries.
 - **Strategy: 9.1.4.1:** Consider establishing a Sussex County Business Resource Center within the Economic Development Office to serve as a resource for existing businesses that want to expand and new businesses that want to move to the County, as well as serve as a job training resource to help current and potential employers.
- **Objective 9.1.5:** Identify the economic needs of the unemployed and underemployed in the region and continue job-training partnerships with educational institutions, local



employers, local governments, chambers of commerce, state agencies, and non-profits to meet those needs.

Strategy 9.1.5.1: The Economic Development Office should act as a "matchmaker" between current and potential employers and educational institutions and local job training resources.

Strategy 9.1.5.2: Continue to coordinate with local educational institutions and employers to understand current job openings in the County and structure job training and professional development programs to efficiently train the local workforce.

Strategy 9.1.5.3: Establish a working group comprised of major healthcare employers, Del Tech, Sussex Tech, and other educational institutions, and County officials. The purpose of the working group will be to identify current and future job training needs and develop programs to meet the needs of the rapidly growing healthcare sector.

Goal 9.2: Encourage economic diversity and expansion.

Objective 9.2.1: Foster an economy that supports and expands existing businesses while pursing larger businesses and a mix of industries that are suited to the County that provide a range of job levels with opportunities for advancement and are willing to train an entry-level workforce.

Strategy 9.2.1.1: Identify current and potential industries that require the resources that Sussex County offers.

Strategy 9.2.1.2: The Economic Development Office should actively promote the County to industries and employers that provide employment opportunities for year-round permanent jobs that offer opportunities for advancement.

Objective 9.2.2: Identify an adequate supply of vacant, shovel-ready land for commercial and industrial uses, while encouraging development that is environmentally sensitive.

Strategy 9.2.2.1: Review zoning code and the development process to see if there are prohibitive costs to development for industrial park developers.

Strategy 9.2.2.2: Complete the current expansion of the Delaware Coastal Business Park and identify potential areas for additional expansion.

Strategy 9.2.2.3: Explore the potential for public-private partnerships for the development of additional industrial parks within the County.

Strategy 9.2.2.4: Identify areas that are served with adequate electricity, natural gas, and fiber optic infrastructure for rezoning to LI-1 and LI-2 uses.



- **Strategy 9.2.2.5:** Explore establishment of a County Economic Development Grid with zones to be centered around areas of the County and associated communities where the County would like to promote economic development.
- **Objective 9.2.3:** Develop employment opportunities to help retain millennials.
 - **Strategy 9.2.3.1:** Learn from best practices of other counties that have growing millennial populations in order to understand how to attract and retain younger populations.
 - **Strategy 9.2.3.2:** Encourage various economic development organizations, like the Sussex Economic Development Action Committee, to actively recruit millennials for leadership roles and establish a millennial advisory committee.
- Goal 9.3: Preserve and encourage the expansion of the agriculture industry, forestry industry, and other similar industries in the County.
 - **Objective 9.3.1:** Encourage the adoption of policies that promote agriculture industry, forestry industry, and other similar industries as important economic industries.
 - **Strategy 9.3.1.1:** Evaluate the concept of establishing voluntary agribusiness areas or district that are centered around existing infrastructure in AR-1 zoning Sussex that allow agricultural uses or other compatible uses.
 - **Strategy 9.3.1.2:** Promote and expand land use, zoning and conservation policies and incentives that keep agriculture economically viable in Sussex County.
 - **Strategy 9.3.1.3:** Ensure zoning regulations accommodate agribusiness, forestry and similar uses in appropriate locations, including businesses that promote new uses for agricultural products and byproducts.
 - **Strategy 9.3.1.4:** Work with landowners and the Delaware Forest Service to protect high value forest tracts and improve the diversity and quality of forest tracts
 - **Strategy 9.3.1.5**: Explore incentives that the County could offer landowners (e.g. property tax exemption) to encourage long-term forest management.
 - **Strategy 9.3.1.6:** The development of sustainable forest product markets requires current comprehensive inventories of the available forest resources. As such, the County should encourage the state's Forestry Service to undertake a comprehensive inventory of the forest resources in the County and to update the inventories on a regular basis.
 - **Strategy 9.3.1.7:** The County should encourage the State to update existing incinerator laws to allow for the use of wood for bio-energy purposes.



Strategy 9.3.1.8: The County should work with Delaware Forestry Service to explore the feasibility of a new roundwood processing facility Sussex County.

Objective 9.3.2: Create opportunities for new investment in agricultural, forestry, and similar industry support activities.

Strategy 9.3.2.1: Review County Code to evaluate whether agricultural food manufacturing/processes and value-added businesses are permitted uses in appropriate zones.

Strategy 9.3.2.2: Undertake a supply chain analysis of local agricultural operations, forestry, and similar operations to identify potential target industries, employers for recruitment, and uses for products.

Goal: 9.4: Maintain and strengthen the County's position as a tourist destination.

Objective 9.4.1: Continue to support the growth of the tourism industry and the expansion of specialty tourism, such as recreational tourism, eco-tourism, agri-tourism, beverage/food tourism, and historic tourism, throughout the County.

Strategy 9.4.1.1: The Economic Development Office and the County's tourism Destination Marketing Organization (DMO), Southern Delaware Tourism, should work to build a brand that appeals to both visitor and investor markets. This will involve the creation of the brand message and the promotion of the brand, which includes specialty tourism, through all channels and sales and marketing.

Strategy 9.4.1.2: The Economic Development Office and the DMO should maintain a platform for regular communication.

Strategy 9.4.1.3: The Economic Development Office should coordinate with and involve the DMO when showcasing opportunities to investors and site location professionals.



Chapter 10. HISTORIC PRESERVATION

<u>Historic Preservation Vision</u>: To preserve and promote the historic and cultural resources of Sussex County that residents cherish and visitors wish to experience.

10.1 BRIEF HISTORY OF SUSSEX COUNTY

Native Americans first inhabited Delaware sometime around 14,000 years ago. They lived and hunted along the many tributaries and bays in the County. Most of the tribes remained in the County until the late 18th century when many moved westward in the face of European colonization. Those that remained moved eastward to Oak Orchard, today home to many inhabitants of the Nanticoke Indian Tribe (Carter, 1976).

The first European settlement in Sussex County was a Dutch trading post in present-day Lewes. The Dutch purchased the land of "Zwaanendael" from a group of local Native Americans on May 5, 1631. However, the colony was short-lived as the entire colony was mysteriously massacred several months later.

In 1632, King Charles I of Great Britain granted a petition by George Calvert for the land that includes present-day Delmarva. No new European settlements occurred until the Dutch resettled Zwaanendael in 1658 as a fort and trading post. In 1663, it was augmented with the establishment of the Mennonite colony of Peter Cornelius Plockhoy (Ploclhoy). He also established an agricultural community in close proximity called Hornhkill (commonly called Whorekill). In the meantime, Charles Calvert, the 3rd Lord Baltimore erected Somerset County, Maryland in 1666 which included much of what is today southern and western Sussex County. Several incidents between the English and Dutch followed and by the 1670s, the English were in control of the area.

In 1681 William Penn was granted proprietorship of today's Delaware Counties and Pennsylvania by the king. On December 25, 1682, the name Sussex County was formally established. The only established town in the County, Whorekill, had its name changed to Lewistown at the same time. The three Delaware Counties formally separated from the Pennsylvania Colony in 1702. Maryland-Delaware-Pennsylvania boundary disputes followed and as a result of a cartography error by the fifth Lord Baltimore, the southern boundary of Delaware was fixed at Fenwick Island in 1733.

For most of the eighteenth century, Sussex County remained heavily wooded. In 1728, Reverend William Beckett reported that there were 1,750 inhabitants in the county. Settlers began to establish plantations, mills and small industries, and villages at strategic locations along navigable streams.

Early industries in the County included grist and lumber and by the mid-18th century dams were being established along streams for the mills. The presence of bog iron ore in central and western Sussex County was also causing forges to come into being. Also, large amounts of cedar and cypress trees in the area were being used for shipbuilding.



The 25 towns that exist today in Sussex County got their start as country stores at crossroads and farming hamlets. Churches were also beginning to form across Sussex's countryside. On the coastal side of the county, pirate attacks were common during the late 17th and early 18th century.

Following the American Revolution, Sussex County began to grow rapidly. In 1791, the Sussex County legislature voted to move the county seat from Lewes to Georgetown as a result of residents expressing sentiments that it was too far of a trip for one to have to do business on the eastern edge of the county.

During the War of 1812, many militiamen came from Sussex County. Lewes was central to the defense of the Delaware Bay and was the site of a British bombardment.

In the decades following the War of 1812, Sussex remained mostly agricultural. As a result of geographic isolation, the County began to lag in industrialization and economic growth. The coming of steamboats in the 1830s and 1840s and the construction of the first railroads in the 1850s and 1860s spurred an uptick in economic growth. The Delaware Railroad reached Seaford in 1856 and Delmar by 1859. The Delaware, Maryland, and Virginia Railroad ran from Harrington to Milford, to Georgetown in 1869. A third line, the Junction and Breakwater Railroad, was constructed between 1859 and 1868 to Lewes; a spur line eventually connected Rehoboth in 1878. These railroads stimulated changes in agriculture and industry, and the growth of new towns.

Construction of the County's first paved highway occurred in 1911 by T. Coleman DuPont and the early state highway system which followed during the administrations of Governor John G. Townsend. Jr. and his successors brought another wave of growth and development. Soon improved transportation made Sussex County's coastal towns more accessible to the people from Philadelphia, Baltimore, and elsewhere. From the 1890's through the Golden Age of the 1920's, Americans discovered the beach. Steamboats also regularly carried travelers to Sussex County's shores.

Sussex County has always been the most important agricultural region in Delaware. In 1880, corn was the dominant cash crop. In 1900, Sussex was the leading strawberry producer in the nation. By the early 1960s, orchard crops had been supplanted by more lucrative agricultural products. At the start of the twentieth century, the lumber industry was a significant source of income for Sussex County. The people of Sussex also worked the surrounding waters. The County's Menhaden fishing was one of the biggest fishing industries in the U.S. During its peak in the 1950s, Lewes was the epicenter of that industry. Salt manufacturing also was prevalent up and down the coast from Cape Henlopen to Fenwick Island.

In 1923, Mrs. Wilmer Steele, a farmer in Ocean View, raised broiling, frying, and roasting chickens for sale in urban markets. Originating with Mrs. Steele's success, Sussex County is now the leading broiler producer in the United States.



In 1939, DuPont acquired land near Seaford for a nylon production plant, which went into production in 1939. Bulked continuous filament nylon, a standard in the carpet industry, was developed at the Seaford plant in 1958.

Canneries were also found throughout Sussex County until the period following World War II when the market transitioned to frozen foods. There were over 45 canning establishments in Sussex County. In addition, there were a number of other important industries including button cutting which began in Milton at the Lippincott Button Factory in the 1920s through the 1950s. Also prominent was the Vineyard Shipyard in Milford, built around 1920.

Sussex County has provided Delaware with important leaders including over two dozen governors from all parts of the County. These included John G. Townsend, Jr. who served as governor from 1916 to 1920. He passed an extensive package of legislation that included establishment of a state highway commission and funds to finance the state's first major highway construction program; establishment of a state income tax and inheritance tax; bills regulating child labor, establishing workmen's compensation, and mother's pensions; and created what later became the state Department of Public Welfare. Another prominent Sussex County governor included Elbert N. Carvel who served from 1948 to 1952 and again from 1960 to 1964. He did much to promote industrial development in the state.

Throughout the County's development, Sussex has maintained its rural character and small town charm. The rich history of Sussex can still be seen through the area's streetscapes, waterfront, and farms.

10.2 WHY PRESERVE HISTORY?

Historic buildings and landscapes in Sussex County are visible reminders of the area's heritage. In towns, in the countryside and in maritime settings, historic places illustrate the lives of people who lived and worked here before us. The Delaware State Historic Preservation Office 2013 Plan entitled "Preserving Our Past for a Better Future" states that:

"Our history is one of Delaware's greatest assets. If we don't understand the past, we cannot understand the present or the future"

Besides providing perspective about days gone by, historic buildings and artifacts have contemporary economic value. Historic sites draw tourists, create jobs and generate commercial revenues. Campaigns to revitalize older downtowns usually depend heavily on reestablishing the traditional, small town, "Main Street" settings that many people find more appealing than highway commercial strips and shopping malls.

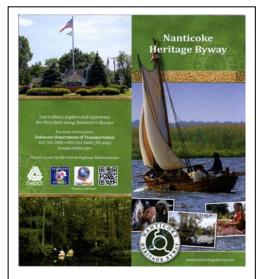
Historic preservation emphasizes reuse, quality of life, and sustainable economic growth. Historic preservation also provides cultural benefits by preservation of historic structures and their cultural identity. Furthermore, historic preservation can also provide economic benefits by promoting the reuse of existing buildings and infrastructure, conserving resources, and revitalizing community centers, and often can encourage private investment in an area.



10.3 COUNTY HISTORIC PRESERVATION ROLE AND ACTIVITIES

The Sussex County Office of Historic Preservation's main duty is to coordinate archeological and historic preservation programs for the citizens of Sussex County. Led by the County Historic Preservation Planner (HPP), the office undertakes the following responsibilities:

- Section 106 Reviews Section 106 of the National Historic Preservation Act of 1966 requires entities undertaking projects receiving federal funds or applying for any federal licenses or permits to take into account the effects of the project on historic structural and archaeological properties. The Sussex County HPP works with Sussex County Departments to facilitate Section 106 reviews in consultation with the State Historic Preservation Officer (SHPO). For example, the County Historic Preservation Planner reviews County Engineering Department projects with an eye toward how they affect historic and cultural resources; in particular, ensuring that they comply with state and federal regulations when it comes to historic preservation. The HPP also occasionally aids Sussex County towns with Section 106 reviews.
- HUD CDBG Reviews The County is responsible for compliance with Section 106 for the Community Development Block Grant (CDBG) program under the Department of Housing and Urban Development (HUD). The HPP works with the County's Community Development and Housing Department to review and document CDBG renovation and demolition projects that are historic in nature and provides this information to the SHPO.
- Technical Advisory Committee The HPP is a participating member of the Sussex County Planning & Zoning Department TAC (Technical Land Use Advisory Committee).
 The HPP's responsible for reviewing site plans with less than 50 units for impact on historical and cultural resources.
- Strengthens neighborhoods The HPP meets with citizens, town councils, town planning commissions, and groups interested in historic preservation to discuss the benefits of preservation including State incentives and benefits of the National Register program. This also includes working with towns to discuss historic ordinances and historic zoning overlay districts.
- Byways The HPP worked on the formation of and continues work with two scenic and historic byways in the County: the Historic Lewes Byway and the Nanticoke Heritage Byway. The Byways program is a tourism based project run through the Delaware Department of Transportation, intended to link historic sites through routes created to get motorists off the beaten path to explore the otherwise overlooked areas in the State. There are six byways state-wide (Red Clay Byway, Brandywine National Byway, Bayshore Byway, Underground Railroad



Brochure for the Nanticoke Heritage Byway



Byway, and the above-mentioned Byways in Lewes and western Sussex County between the communities along the Nanticoke river watershed). These projects have increased awareness about the importance of preservation as a way of generating economic growth through heritage tourism, but also at bringing together unlikely partners and encouraging cooperation between otherwise competing organizations. They have also been successful at bringing funding to projects through the State Transportation Enhancement Fund, which makes projects along Byways a priority.

- Cemetery Protection The HPP assists with the documentation and protection of local cemeteries in Sussex County. The HPP is working with the Delaware Cemetery Board to locate and document endangered sites as well as acquire grant funding for the preservation and restoration of distressed cemeteries. The HPP has been successful in procuring two Delaware Cemetery Board grants to date, of a total amount of \$10,000. The County also maintains a database of known burial sites. The database now exceeds 700 known burial sites with more being uncovered monthly. This is a result of the County's increased educational efforts and outreach; working with local archeologists, interested citizens, and preservation groups to document unmarked human remains.
- Heritage Tourism The HPP works with local, county, and state tourism offices to encourage the promotion of historic sites in the County. The HPP serves on the State Tourism Committee, as well as the Greater Seaford Chamber Tourism Committee. These partnerships have been extremely successful in bringing tourists to the area, as well as bringing much needed publicity. The HPP works with the Greater Seaford Chamber Tourism Committee to annually host a group of travel writers from across the Country to tour the area. In 2016, the committee arranged for the writers to experience activities in Sussex County including all day river excursions as well as skydiving in Laurel. As a result, a multitude of articles highlighting the amazing destinations in Sussex County were published and the Greater Seaford Chamber Tourism Committee was named Tourism Partner of the Year by Southern Delaware Tourism.
- Restoration and Adaptive Reuse The HPP continues to aid citizens with planning for restoration of significant historic properties throughout the County, as well as assist with historic research for local nominations to the National Register of Historic Places. The following are project currently in progress:
 - Cannon Maston House –This Maryland Hall Parlor House was built in 1727 just outside of Seaford. Archeology has been done at the site and plans are in place for trails to be constructed around the 60-acre parcel. Additionally, the architectural analysis has been completed and restoration plans including costs have been finalized. A friends group is being formed to raise the \$350,000 for first phase of restoration and grant funds are being secured for Trails planning and implementation.
 - Hearn & Rawlins Mill Located just outside of Seaford, this site was purchased by DNREC Fish and Wildlife. The dam is currently being upgraded and as a result of a Section 106 consultation the Mill site has been stabilized. A wide variety of options are being explored for the site. There have been meetings with the



HAPPEN group (organization of people who live along the mill pond interested in its preservation) and other stakeholders to come up with a plan for future uses of the site, which include everything from complete restoration to a Micro-Brew. There is a high-level of public interest in the preservation the site. so any infrastructure proposed to be built



Hearn and Rawlins Mill Site

will need to gain support from the community. Currently there is a small endowment established for the upkeep of the site.

- Governor William Ross Plantation (gov. 1851 1854) Owned by the Seaford Historical Society (SHS), the Italianate Villa and farm was constructed in 1855. Coordination with SHS is taking place to plan and construct an event center to mimic the original train station that once stood on the property. The center will have modern amenities and accommodation for 400 people, and will also serve as a way to generate revenue for the SHS.
- Richard Allen School Located in Georgetown, this is a DuPont school for African Americans. The HPP worked with the Richard Allen Coalition (School preservation group) to take ownership of the School; advising them with fundraising and planning for restoration of the school, to ultimately be used as a community center.
- Blackwater Presbyterian Church Located in Clarksville, this Church was constructed in 1763. An established citizens group has secured funding for the preservation of the Church. The HPP has helped with brining in experts to document the site and make plans for its proper restoration. The Church will serve as an event center.
- Blackwater One-room School House The School House located in Clarksville was constructed sometime around 1890. It is one of only six remaining pre-DuPont one-room schoolhouses in Delaware and has been nominated to be included on the National Register. The site is also home to an African American Camp-meeting held annually since the 1840's, a historic cemetery, DuPont School and Church. The HPP is working with a group interested in the preservation of the School House. The preservation group worked with a publisher to complete a short history brochure for fundraising.
- Woodland One-room Schoolhouse Coordination with a group of interested citizens to restore the one-room school in Woodland is taking place. A non-profit has been formed, and a lease for the site is in negotiation, with plans for restoration complete. A festival/fundraiser has been scheduled for September 30, 2017.



- Trails The HPP works with local open space groups and State agencies to plan trails.
 In 2016, Sussex County just created its first park, Woodland Park, a 20-acre park with
 trails surrounding a historic schoolhouse. The County is also working with DNREC and
 DelDOT to create trail connectors across public land in western Sussex County, in and
 around the Nanticoke Heritage Byway.
- Oral History Projects The HPP has conducted two oral history projects in Sussex County; one with Sussex Century Farmers and the other with an African American Community in Georgetown. For the Sussex Century Farmers project, the HPP interviewed one farmer from each of the 13 Hundreds in Sussex. Interviews and materials have been used for publications and academic research. For the second project, the HPP worked with students from Delaware State University to document the community around the Richard Allen School (RAS project). Materials were presented to the community and these efforts helped lead to the preservation of the historic school site in Georgetown. Two other oral history projects were conducted, directed by the HPP and students from DSU; one focusing on Jim Crow laws in Delaware and one commemorating the 50th anniversary of the 1964 Civil Rights Act. Other oral histories have been conducted by the HPP for inclusion with historic context of County sewer districts, Community Development projects, and National Register of Historic Places nominations.
- Education The HPP is working with local historical societies to help introduce Delaware History to students beginning in the 5th grade. Groups and local retired educators are coming together to train and educate students about local history; the Seaford Historical Society in particular is training 30 students to docent at events held at the Governor Ross Plantation in Seaford. The HPP also assists with training efforts. As funds become available, a curriculum guide will be developed for use by teachers in the classroom. The HPP worked with the Delaware Heritage to plan for the publication of a book to be used focusing on the 50 most important historic sites in Sussex County. Additionally, high school students need volunteer hours for graduation; therefore, partnerships with the schools are being established to train students to docent at historic sites.
- Private landowner assistance Sussex County helps private landowners apply for tax credits and grants. The County also provides advice on historic sites and works to find ways to mitigate the effects a project might have on a historic site, such as burial grounds, historic homesteads and long-lost settlements.
- State Historic Preservation Responsibilities/Activities HPP participated in the creation of the last State Historic Preservation Five-Year Plan, created in 2012. The HPP is currently assisting with creation of the next five-year plan as a member of the State Review Board for Historic Preservation. The HPP, as a member of this board, also assists in public outreach, give presentations to local planning commissions throughout the County, including the towns of Laurel, Bridgeville, Georgetown, Bethel, Millsboro, as well as making presentations to the public in Georgetown, Seaford, Ocean View, Lewes, Laurel, and through the Rotary Club, Kiwanis, schools, and the Greater Seaford Chamber of Commerce.



10.4 STATE HISTORIC PRESERVATION ROLE AND ACTIVITIES

10.4.1 Delaware Department of State Division of Historic and Cultural Affairs

Historic preservation is a deliberate effort to maintain, restore and protect buildings and surroundings that tell the story of the past. Successful historic preservation takes foresight, organization and adequate funding. Government, non-profit advocates, local historical societies, and private citizens all play a role in preserving and promoting Delaware's heritage, including the unique character of Sussex County.

The Division of Historic and Cultural Affairs is the State's historic preservation agency. The Division's main responsibilities:

- Operating the eight State-owned museums in Delaware and over 90 other historic stateowned properties, including two historic homes that serve as conference centers.
- Conserving the State's collection of historic documents, fine arts, and other memorabilia.
- Preparing and participating in exhibits, special events and educational programs.
- Identifying, studying and preserving historic buildings, districts, and landscapes, including archaeological sites and their contents.
- Providing information on tax credits and other funding incentives available for rehabilitating officially designated historic buildings.
- Working with others to administer state and federal regulation that protect officially designated historic places.
- Maintaining the state's Cultural and Historical Resources Information System (CHRIS); a
 web-based geographic information mapping system developed to provide information on
 historic properties in Delaware and to assist with project and historic preservation
 planning.

The Director of the Division is Delaware's State Historic Preservation Officer (SHPO), designated in accordance with federal regulations. The SHPO, with advice from the State Review Board and State staff, is responsible for:

- Evaluating the historic significance of properties nominated for the National Register of Historic Places (the list of officially designated historic locations).
- Deciding who will receive federal Historic Preservation Fund monies awarded to Delaware.
- Administering local compliance with federal regulations that require an assessment of potential effects whenever federal money is to be spent on a project located near a site listed on the National Register of Historic Places.
- Administering Delaware's Tax Credit Program, under which people can earn tax credits
 for preserving buildings listed on the National Register. The amount of the tax credit is
 equal to a percentage of the rehabilitation cost. Federal tax credits worth 20% of total cost



are available provided the building is an income producing structure. State income tax credits equal 20% for income producing buildings, 30% for owner-occupied homes, and an additional 10% for low-income housing.

10.4.1.1 State Review Board for Historic Preservation

The Review Board's main mission is to review and approve National Register nominations for Delaware, develop the State five-year Historic Preservation Plan, and conduct public outreach. The two main functions of the Review Board are to evaluate the historic significance of properties objectively and to provide professional advice on historic preservation matters. The Board is currently in the process of completing its 2018 State Historic Preservation Plan.

10.5 OTHER HISTORIC PRESERVATION PARTNERS

10.5.1 Preservation Delaware, Inc.

Preservation Delaware, Inc. is a State-wide, non-profit organization devoted to preserving Delaware's historic and architecturally significant buildings. Their motto is "Protecting the Irreplaceable in the First State." This group administers the Delaware Preservation Fund, which offers \$2,000 to \$4,000 grants for restoration of historic structures in Sussex each year.

10.5.2 National Trust for Historic Preservation

The National Trust for Historic Preservation is a privately funded nonprofit organization dedicated to saving America's historic places. Their mission is to protect significant places representing diverse cultural experience by taking action and inspiring public support. The Preservation protects and promotes a collection of 27 diverse historic sites (Saving Places, 2017)

10.5.3 Local Historic Societies

In addition to the State's Historical Society there are several local historic societies that exist in Delaware. For example, Lewes has its own historical society which promotes historical tours and visits to the local museums.

10.5.4 Delaware Historical Society

Founded in 1864, the Delaware Historical Society's mission is to serve as the statewide, non-profit organization that preserves, explores, shares and promotes Delaware history, heritage and culture to strengthen the community. The Society operates and maintains four sites including the Delaware History Museum, the Mitchell Center for African American Heritage, Old Town Hall, the Research Library, Willington Square, and the Read House & Gardens (DE History, 2017)

10.5.5 Delaware Nature Society

The Delaware Nature Society, among other things, restored and operates the Abbott's Mill Nature Center just inside Kent County near Greenwood, Delaware. The Society has been consulting with Sussex County to help to plan for the restoration of the Hearn & Rawlins Mill outside Seaford.



10.5.6 Delaware Department of Natural Resources and Environmental Control (DNREC)

DNREC's mission is to ensure the wise management, conservation, and enhancement of the State's natural resources, protect public health and the environment, provide quality outdoor recreation, improve the quality of life and educate the public on historic, cultural, and natural resource use, requirements and issues. DNREC is comprised of several different divisions. The Division of Parks and Recreation protects and maintains the state's parks, preserves, and greenways. It works through public-private partnerships to protect and maintain natural, historical, and cultural resources (DNREC, 2017)

10.5.7 DelDOT

The Delaware Department of Transportation strives to make every trip taken in Delaware safe, reliable and convenient for people and commerce. Their system is made up of roadways, rails, buses, airways, waterways, bike trails, and walking paths. DelDOT's Cultural Resource Division is responsible for the Department's Archeologic and Historic Preservation Activities (DelDOT, 2017).

10.5.8 Archeological Society of Delaware

The Archeological Society of Delaware is a non-profit organization founded by avocational and professional archeologist in 1933. The purpose of the society was to study and appreciate that archeological heritage of Delaware and the surrounding region. The Society works to educate members and the public, support archeological investigations, report on activity within the region, and to promote interest and participation in archeology (DelawareArch, 2017).

10.5.9 University of Delaware Center for Historic Architecture and Design

The University of Delaware's Center for Historic Architecture and Design is an interdisciplinary research and public service center that addresses historic preservation planning and policy. The Center has a particular focus on the documentation, interpretation, and evaluation of historic buildings and landscapes. By working with the MA in Historic Preservation program, the Center provides an integrated program of graduate education, research, and public service (UDEL, 2017).

10.5.10 Salisbury University Center for Delmarva History and Culture

The Edward H. Nabb Research Center for Delmarva History and Culture is a humanities research laboratory for university students. It also fulfills the historical resource needs of a variety of community researchers. The library contains books, serials, archival and artifact collections relating to United States history, the greater Chesapeake region and the Delmarva Peninsula (Salisbury University, 2017).

10.5.11 Southern Delaware Tourism



The Southern Delaware Tourism Office promotes tourism through the various events, historic sites, and entertainment that take place in the County. The Office provides visitor information on Sussex's historic sites, towns, events, and museums (Visit Southern Delaware, 2017).

10.5.12 Greater Seaford Chamber of Commerce

The Chamber of Commerce has been serving the Western Sussex County business community for nearly 60 years. They cover the city of Seaford and the towns of Greenwood, Bridgeville and Blades in Western Sussex County. There are over 300 members that support the mission of the Chamber (Seaford Chamber of Commerce, 2017). The Chamber promotes the historical societies and museums of Western Sussex.

10.5.13 Sussex County Land Trust

The concept of the Sussex County Land Trust was originated by two local developers who were joined by a group of concerned citizens in 2001. A unique public-private partnership between Sussex County Council and the Land Trust later evolved. To date, the Sussex County Land Trust raised \$4,198,481 in private dollars and donations to go towards protecting and conserving open spaces (SCL, 2017). The Sussex County Land Trust acquired the Cannon-Maston property located on Atlanta Road outside Seaford. They have also been active in supporting the development of the 60-acre site for trails, and have funded efforts to extensively study the site with the aid of the County's Historic Preservation Planner, as well as developing plans for restoration of the 1727 structure on the property.

10.5.14 Nanticoke Watershed Alliance

The Nanticoke River beginning in southern Delaware and flowing southwest to the Chesapeake Bay through the Lower Eastern Shore of Maryland, is the most biologically diverse watershed in Delmarva. The Alliance is dedicated to working together to protect and conserve the natural, cultural, and recreational resources of the River (Nanticoke, 2017). It promotes the properties in the watershed that are on the National Register of Historic Places and the Nanticoke Heritage Byway.

10.5.15 Delaware Heritage Commission

Created in 1972, the Commission became one of the principal agencies for the celebration of Delaware history. Their mission is to celebrate the history and heritage of Delaware. The Commission has celebrated Delaware history through publications of books and history camp programs for boys and girls.

10.6 HISTORIC RESOURCES

10.6.1 The National Register of Historic Places



The National Register of Historic Places is the official inventory of America's historic sites. It is administered by the U.S. Department of Interior's National Park Service. The National Register features over 92,000 sites nationwide. In addition to federal properties with historic importance, the National Register includes properties across the country that were nominated by governments, organizations, and individuals because of the importance to the nation, a state, or a community. Sussex County sites listed on the National Register are included in Table 10.6-1 and displayed in Figure 10.6-1.



Old Christ Church National Register Historic Site

The inventory includes buildings, districts, sites, and structures significant to history, architecture, archaeology, engineering and culture. Most properties on the National Register are at least 50 years old.

The benefits of listing on the National Register:

- Official recognition that the property is significant.
- Qualification for certain federal funds when these very limited funds are available.
- Eligibility for state and federal historic rehabilitation tax credits.
- Mandatory consideration of potential impacts when projects using federal funds are proposed nearby.



Cannon's Ferry National Register Historic Site

Table 10.6-1 Sussex County Sites on the National Register of Historic Places					
Resource Name	Address	City	Year Listed		
Abbott's Mill	SW of Milford	Milford	1972		
Abbott's Mill (Boundary Increase)	Rd. 620 W of DE 36	Milford	1979		
Adams Home Farm	15293 Adams Road	Greenwood	2015		
Adams, Joseph T., House	12 E. Pine St.	Georgetown	1998		
All Saints' Episcopal Church	18 Olive Ave., Lewes and Rehoboth Hundred	Rehoboth Beach	1991		
Avery's Rest Site	Address Restricted	Rehoboth Beach	1978		



Baltimore Mills Historic Archaeological Site Address restricted Omar 1997 Barnes Woods Archeological District O.4 mi. W of Laurel Bethel Historic District O.4 mi. W of Laurel Bethel Historic District O.4 mi. W of Laurel Bethel 1975 Blackwater Presbyterian Church W of Clarksville on DE 54 Clarksville 1976 Brick Hotel The Circle Georgetown 1979 Bridgeville Historic District O.5 mills bridgeville District O.5 mills bridgeville District O.5 mills bridgeville District O.5 mills bridgeville District O.5 mills District O.5 mil	Table 10.6-1 Sussex County Sites on the National Register of Historic Places				
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Blackwater Presbyterian Church Brick Hotel The Circle Bridgeville Historic District Bridgeville Public Library Bridgeville Public Library Bridgeville Public Library Building at 200–202A High Street Building at 218 High Street Building at 218 High Street Building at 218 High Street Building at High and Cannon Streets Building at High Street Building at High Street Building at High and Cannon Streets Building at High and Cannon Seaford 1987 Seaford 1987 Burton-Blackstone-Carey Store 103 State St. Millsboro 2014 Cannon's Ferry Across the Nanticoke River Woodland 1973 Cape Henlopen Archeological District Address Restricted Lewes 1978 Carey's Camp Meeting Ground Wof Millsboro off DE 24 Millsboro 1973 Carlisle House 205 S. Front St. Milford 1982 Chandler, Capt. Ebe, House Main and Reed Streets Frankford 1979 Chipman Potato House Jct. of DE 465 and DE 465A Laurel 1990 Chipman's Mill E of Laurel on SR 465 Laurel 1990 Collins Potato House Jct. of DE 509 and DE 510A Laurel 1990 Collins Potato House Jct. of DE 509 and DE 510A Laurel 1990 Cool Spring Presbyterian Church Wof Lewes on SR 247 Lewes 1982 Cox, J. W., Dry Goods Store 214 High St. Seaford 1987 Davis, Robert, Farmhouse Sof Rt. 24 Millsboro 1979 Dawson, Dr., House 200 SE Front St. Milford 1983 Delware Breakwater and Lewes Harbor E of Lewes at Cape Henlopen Lewes 1976	_	Address Restricted	Seaford	1996	
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Delaware Breakwater and Lewes Harbor E of Lewes at Cape Henlopen Lewes 1976	De Vries Palisade	Address Restricted	Lewes	1972	
Harbor E of Lewes at Cape Henlopen Lewes 1976	Deep Creek Furnace Site	Address Restricted	Middleford	1977	
Dickerson Potato House Jct. of DE 494 and DE 498 Delmar 1990		E of Lewes at Cape Henlopen	Lewes	1976	
	Dickerson Potato House	Jct. of DE 494 and DE 498	Delmar	1990	



Table 10.6-1 Sussex County S	Sites on the National Register of I	HISTORIC Places	
December Name	Address	City.	Year
Resource Name	Address W of Rehoboth Beach on DE 1	City	Listed
Dodd Homestead		Rehoboth Beach	1982
Draper House	200 Lakeview Ave.	Milford	1982
Draper-Adkins House	204 Federal St.	Milton	1973
Egglinton Hall	700 SE 2nd St.	Milford	1983
Ellendale State Forest Picnic Facility	US 113, 1/2 mi. S of DE 16, Georgetown Hundred	Ellendale	1991
Eratt House	W of Bridgeville on DE 572	Bridgeville	1983
Evans-West House	40 West Avenue	Ocean View	2015
Faucett, Peter S., House	W. Laurel St.	Georgetown	1985
Fenwick Island Lighthouse Station	Off DE 54	Fenwick Island	1979
First Broiler House	University of Delaware Experimental Station	Georgetown	1974
First National Bank of Seaford	118 Pine St.	Seaford	1987
Fisher Homestead	W of Lewes	Lewes	1980
Fisher's Paradise	624 Pilottown Rd.	Lewes	1972
Fort Miles Historic District	At the confluence of the Atlantic Ocean and Delaware Bay	Lewes	2004
Georgetown Coal Gasification Plant	N. Railroad Ave.	Georgetown	1985
Grier House	301 Lakeview Ave.	Milford	1983
Gyles, Stella Pepper, House	SW of Georgetown	Georgetown	1979
Hall, Col. David, House	107 King's Hwy.	Lewes	1976
Harmon School	S of jct. of Rt. 24 and CR 297	Millsboro	1979
Harmon, Isaac, Farmhouse	CR 312A	Millsboro	1979
Harmony Church	Rt. 24, E of CR 313	Millsboro	1979
Hazzard House	327 Union St.	Milton	1973
Hearn and Rawlins Mill	N of Seaford on U.S. 13A	Seaford	1978
Hearn Potato House	.6 mi. N of jct. of DE 74 and DE 62	Laurel	1990
Hebron Methodist Protestant Church and Cemetery	18282 Seashore Hwy.	Georgetown	2015
Highball Signal	City park, near Penn-Central RR.	Delmar	1973
Hitch, E. L., Potato House	Jct. of DE 460 and DE 489	Laurel	1990
Hitchens, Ames, Chicken Farm	N of Rt. 24	Millsboro	1979
Hopkins' Covered Bridge Farm	N side Rd. 262, E of jct. with Rd. 286, Lewes and Rehoboth Hundred	Lewes	1991
Indian Mission Church	Jct. of Rt. 5 and CR 48	Millsboro	1979
Indian Mission School	Rt. 24 between CR 312A and 313A	Millsboro	1979



Table 10.6-1 Sussex County S	Sites on the National Register of I	Historic Places	
			Year
Resource Name	Address	City	Listed
Indian River Archeological Complex	Address Restricted	Millsboro	1978
Indian River Life Saving Service Station	N of Bethany Beach on DE 14	Bethany Beach	1976
Johnson School	Rt. 24 between CR 309 and 310	Millsboro	1979
Judge's House and Law Office	100 and 104 W. Market St	Georgetown	1979
Laurel Historic District	West St. to Rossakatum Creek to Tenth St.	Laurel	1988
Lawrence	N of Seaford on U.S. 13A	Seaford	1978
Lewes Historic District	Ship-carpenter, Front, Savannah, 2nd, 3rd, and 4th Streets	Lewes	1977
Lewes Historic District (Boundary Increase)	Roughly bounded by Front St., Savannah Rd., McFee St. and the Penn Central RR tracks, Lewes and Rehoboth Hundred	Lewes	1992
Lewes Presbyterian Church	100 Kings Highway	Lewes	1977
Lightship WLV 539	LewesRehoboth Canal between Shipcarpenter and Mulberry Streets	Lewes	1989
Marsh, Peter, House	10 Dodd's Lane	Rehoboth Beach	1977
Maston House	3 mi. N of Seaford on Seaford- Atlanta Rd.	Seaford	1975
Maull House	542 Pilottown Rd.	Lewes	1970
Maull, Thomas, House (Boundary Increase)	542 Pilottown Rd.	Lewes	1978
McColley's Chapel	18168 Redden Rd.	Georgetown	2011
Melson House	N of Atlanta on SR 30	Atlanta	1978
Messick, Dr. John W., House and Office	144 E. Market St.	Georgetown	1987
Milford Railroad Station	DE 36	Milford	1983
Milford Shipyard Area Historic District	Roughly bounded by Mispillion River, Franklin, Front and Marshall Streets	Milford	1983
Milton Historic District	DE 5	Milton	1982
Mispillion Lighthouse and Beacon Tower	NE end of CR 203	Milford	1987
Moore Potato House	SE of jct. of DE 72 and DE 463	Laurel	1990



Table 10.6-1 Sussex County Sites on the National Register of Historic Places				
			Year	
Resource Name	Address	City	Listed	
National Harbor of Refuge and Delaware Breakwater Harbor Historic District	Mouth of Delaware Bay at Cape Henlopen	Lewes	1989	
Norwood House	SW of Lewes on DE 9	Lewes	1982	
Old Bridgeville Fire House	102 William St.	Bridgeville	1984	
Old Christ Church	SE of Laurel at jct. of SR 465 and 465A	Laurel	1972	
Old Sussex County Courthouse	S. Bedford St.	Georgetown	1971	
Pagan Creek Dike	Pagan Creek near New Rd.	Lewes	1973	
Pepper, Carlton, David, Farm	S of Georgetown on SR 469	Georgetown	1979	
Perry-Shockley House	219 Washington St.	Millsboro	1985	
Phillips Potato House	SW of jct. of DE 492 and DE 492A	Laurel	1990	
Pine Grove Furnace Site	Address Restricted	Concord	1978	
Ponder, Gov. James, House	416 Federal St.	Milton	1973	
Poplar Thicket	Address Restricted	Bethany Beach	1978	
Portsville Lighthouse	N side of CR 493	Portsville	1987	
Prince George's Chapel	E of Dagsboro on DE 26	Dagsboro	1971	
Ralph Potato House	SE of jct. of DE 493 and DE 494	Laurel	1990	
Redden Forest Lodge, Forester's House, and Stable	Redden State Forest	Georgetown	1980	
Ricards House-Linden Hall	E of Bridgeville on US 13	Bridgeville	1982	
Richards Historic District	County Rd. 34	Greenwood	1983	
Richards Mansion	N. Bedford St. and the Circle	Georgetown	1979	
Rider Potato House	SE of jct. of DE 506 and DE 505	Laurel	1990	
Robbins, David, Homestead	26285 Broadkill Rd.	Milton	2013	
Robinson, Jesse, House	High St.	Seaford	1982	
Roosevelt Inlet Shipwreck	Address Restricted	Lewes	2006	
Ross Point School	CR 448 near Jct. with Rt. 62	Laurel	2001	
Ross, Edgar and Rachel, House	413 High St.	Seaford	1997	
Ross, Gov. William H., House	N of Seaford on Market St.	Seaford	1977	
Russell, William, House	410 Pilot Town Rd.	Lewes	1977	
Scott's Store	NW of Bridgeville on DE 404	Bridgeville	1983	
Seaford Station Complex	Nanticoke River at Delaware Railroad Bridge	Seaford	1978	
Short Homestead	W of Georgetown at DE 526 and DE 529	Georgetown	1982	
Sipple, Thomas, House	N. Bedford & New Streets	Georgetown	1985	



Table 10.6-1 Sussex County Sites on the National Register of Historic Places					
			Year		
Resource Name	Address	City	Listed		
South Milford Historic District	Roughly bounded by Mispillion River, Maple Ave., Church and Washington Streets	Milford	1983		
Spring Banke	NE of Clarksville on DE 26 and Irons Lane	Clarksville	1976		
Spring Garden	NE of Laurel on Delaware Ave.	Laurel	1982		
St. George's Chapel	9 mi. SW of Lewes on DE 5	Lewes	1973		
St. John's Methodist Church	Springfield Crossroads, jct. of SR 30 and Co. Rd. 47	Georgetown	1990		
St. Luke's Protestant Episcopal Church	Front St.	Seaford	1977		
St. Paul's Episcopal Church	E. Pine St	Georgetown	1979		
Stanley Potato House	N of jct. of DE 68 and DE 451	Laurel	1990		
Sudler House	N. Main St.	Bridgeville	1974		
Sussex County Courthouse and the Circle	The Circle	Georgetown	1973		
Sussex National Bank of Seaford	130 High St.	Seaford	1987		
Teddy's Tavern	E side Du Pont Blvd., 0.6 mi. N of jct. with DE 16, Cedar Creek Hundred	Ellendale	1991		
Thompsons Island Site	Address Restricted	Rehoboth Beach	1978		
Thompson's Island Site (Boundary Increase)	Address Restricted	Rehoboth Beach	1997		
Thompson's Loss and Gain Site	Address Restricted	Rehoboth Beach	1978		
Townsend Site	Address Restricted	Lewes	1978		
Trinity Methodist Episcopal Church	NW of Bridgeville on DE 31	Bridgeville	1978		
TunnellWest House	39 Central Ave.	Ocean View	2012		
Union Wesley Methodist Episcopal Church Complex	Powell Farm Rd.	Clarksville	2014		
Warren's Mill	NW of Millsboro on DE 326	Millsboro	1978		
Warrington Site	Address Restricted	Rehoboth Beach	1977		
West Potato House	US 13 N of jct. with DE 454A	Delmar	1990		
West Woods Methodist Episcopal Church	West Woods Rd., W of Millsboro Hwy.	Gumboro	2007		
Wilgus Site	Address Restricted	Bethany Beach	1978		
Wolfe's Neck Site	Address Restricted	Lewes	1978		
	•				

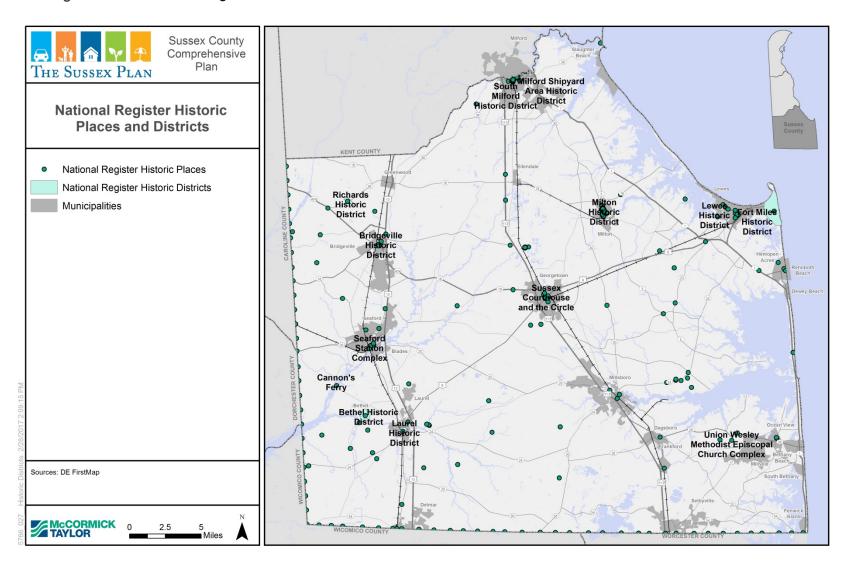


Table 10.6-1 Sussex County Sites on the National Register of Historic Places					
Resource Name	Address	City	Year Listed		
Woman's Christian Temperance Union Fountain	Boardwalk at Rehoboth Ave.	Rehoboth Beach	2009		
Wright Potato House	SW of jct. of DE 24 and DE 510	Laurel	1990		
Wright, Gardiner, Mansion	228 S. Front St	Georgetown	1979		
Wright, Warren T., Farmhouse Site	Address Restricted	Millsboro	1979		





Figure 10.6-1 National Register Historic Places and Districts





10.6.2 Local Historic Districts

Groups of closely located properties are often listed together on the National Register as historic districts. These districts should not be confused with the historic districts that local municipalities establish and regulate through their zoning ordinances or through separate special purpose ordinances.

National Register sites may or may not be part of locally-created historic districts. National Register sites outside of local historic districts are not subject to any of the restrictions on renovation and demolition that local municipalities often attach to properties within their local historic districts. National Register status by itself does not legally prevent property owners from doing whatever they want to their properties, including demolition.

Several Sussex County municipalities established local historic districts. These include Bethel, Bethany Beach, Bridgeville, Georgetown, Laurel, Lewes, Milford, Milton, and Selbyville. However, only Lewes, Milton, Selbyville, Georgetown, and Bethany Beach have established local protections to regulate renovation and demolition of structures within these districts. Bridgeville, Bethel, and Laurel are currently considering local ordinances.

10.6.3 Other Historic Resources

In addition to the over 400 historic resources listed on the National Register of Historic Places, there are more than 12,000 additional historic and cultural resources in Sussex County. These are available for viewing through the Delaware CHRIS website at https://chrisusers.delaware.gov.

10.7 HISTORIC PRESERVATION FUNDING ENTITIES

A number of funding opportunities for historic preservation in Sussex County exist including:

10.7.1 Delaware Historic Preservation Tax Credit Program

The Delaware Historic Preservation Tax Credit Program is administered through the State and annually makes available \$5 million in state tax credits for projects approved under the program guidelines. The amount of the tax credit is equal to a percentage of the cost of the rehabilitation:

- 20% for income-producing (depreciable) historic buildings [which increases to 30% when a project qualifies for the Delaware State Housing Authority's low income tax credits]
- 30% for all other historic buildings [owner-occupied, residential buildings; non-profit-owned buildings and church-owned buildings]
- Tax credits awarded to a project can be applied against the applicant's state income tax, or can be transferred, sold or assigned to any person or corporation with Delaware income tax liability, or to banks to be applied against their franchise tax liability. Applications for owner-occupied residential properties are limited to being awarded a maximum of \$20,000 every 24 months.

10.7.2 Delaware Community Foundation



The Delaware Community Foundation began in 1986 as a result of concern that most fundraising was for current operating needs and none for endowments to meet future needs. The foundation helps communities and philanthropists focus charitable resources for the greatest community benefit statewide. The Foundation holds approximately \$235 million in charitable assets and is among the largest community foundations in the country (DelCF, 2017). Through the Foundation, people can donate to a number of funds that support historic preservation including funds for local historical societies, museums, and cemeteries.

10.7.3 Sussex County Land Trust

Each year the Sussex County Land Trust raises money to preserve open space, including historic sites such as the Wolfe House located off Wolfe Neck Road, with gifts from individuals, foundations, corporations, and through their partnership with Sussex County Council. Additionally, their donated conservations easement program has significantly grown and contributes a large part of their land protection efforts.

10.7.4 Delaware Preservation Fund

The Delaware Preservation Fund was created by Preservation Delaware and incorporated in 2000. The purpose of the Fund is to provide financial assistance to owners of historic properties. All of the Fund's programs target building which are on or eligible for listing on the National Register, or located in a historic district (Preservation, 2017).

10.7.5 National Trust for Historic Preservation

The National Trust for Historic Preservation provides several recognition vehicles for individual donors. The largest levels include:

- President's Circle: includes members that are committed to preservation by making annual gifts of \$1,000 or more.
- Chairman's Circle: includes a select group of donors who annually support the Trust by making unrestricted contribution of \$5,000 or more within a fiscal year.
- National Trust Council: the premiere donor recognition of society of the Trust. Members provide philanthropic support and contribute an annual \$10,000 or more (Saving Places, 2017).

10.7.6 Delaware Main Street Program (Downtown Delaware)

The National Trust for Historic Preservation launched a movement called Main Street America. Downtown Delaware is a coordinating program of Main Street America and acts as a resource center within the Delaware Economic Development Office. It provides Delaware's historic downtowns, communities and small businesses with tools for revitalization (Delaware Main Street, 2017). Milford and Rehoboth are two towns in Sussex County with recognized main street programs.

10.7.7 USDA Rural Development Program/Small Business Program



The United State Department of Agriculture Rural Development operates over 50 financial assistance programs for a variety of rural applications. They provide various types of grants and loans including funding to invest in redevelopment of historic buildings (USDA, 2017).

10.7.8 Longwood Foundation

Dedicated to the people, environment, and communities of Delaware and southern Chester County in Pennsylvania, the Foundation accepts grant requests from all organizations that have 501(c)3 status. Since 1937, the foundation has awards grants to non-profits totaling over \$2 billion including grants to help restore historic buildings (Longwood Foundation, 2017).

10.7.9 Fair-Play Foundation

The Fair-Play Foundation is one of the top giving foundations in Delaware with an annual giving of approximately \$590,000 (TGCI, 2017). They have supported historic preservation efforts in Sussex County including providing funding for restoration of the Shores House in Ocean View.

10.7.10 Crystal Trust

The Crystal Trust was created in 1947. Its giving mainly goes to higher and secondary education and social and family services. These services include youth and child welfare agencies, family planning, and programs for the aged, the disadvantaged, and the homeless. In addition, they also support arts and cultural programs, health and hospitals, conservation programs, and historical preservation (FC, 2017).

10.7.11 Federal Highway Administration

In 2013 the Advisory Council on Historic Preservation signed a new Programmatic Agreement with the FHWA for the State of Delaware. The agreement was developed to establish a more efficient approach to Section 106 compliance for Federal-Aid Highway projects in Delaware (ACHP, 2017).

10.7.12 Delaware Cemetery Board

The Delaware Cemetery Board offers \$80,000 per year in grant money throughout the state through the Distressed Cemetery Fund to preserve and restore distressed cemeteries. "Distressed cemetery" means any land or structure used or intended to be used for the interment/entombment of human remains including facilities used for the final disposition of cremated remains whereby the owner lacks sufficient financial resources for the maintenance or preservation of said cemetery as determined by the Board. The maximum amount available from the Fund to each cemetery is \$10,000.

10.7.13 State of Delaware Certified Local Government Program

The State encourages communities to pursue Certified Local Government (CLG) status. The program is administered by the SHPO in partnership with the National Park Service and provides technical and financial assistance to governments to strengthen their preservation efforts at the



local level. CLG's may apply for grants to pursue historic preservation-related projects and programs. The grants are awarded on a 60/40 matching basis (State of Delaware, 2017).

10.8 HISTORIC PRESERVATION GOALS, OBJECTIVES, AND STRATEGIES

Below is a list of goals, objectives, and strategies for Sussex County's Historic Preservation Element:

Goal 10.1: Preserve the historic and cultural resources in the County

Objective 10.1.1 Document existing historic and cultural resources in the County.

Strategy 10.1.1.1 Continue partnerships with universities, archaeological societies, local historical societies, and other entities to document historic and cultural resources in the County.

Objective 10.1.2 Identify additional historic sites to preserve.

Strategy 10.1.2.1 Continue working with universities, towns, private property owners, and other historic preservation entities to identify new sites for the National registers and expand existing national register districts.

Strategy 10.1.2.2 Consider the development of an ordinance that would require documentation of a structure build more than 80 years ago.

Objective 10.1.3 Consider Pursuing Certified Local Government (CLG) Status through the State.

Strategy 10.1.3.1 Meet with the National Trust and the SHPO to learn more about the terms of the CLG program.

Strategy 10.1.3.2 Reach out to Lewes and Milton, the two communities in Sussex County currently with Certified Local Government Status, to learn more about their experiences with the program.

Strategy 10.1.3.2 Share information with the Planning and Zoning Office and Planning and Zoning Commission to educate them about the CLG program.

Objective 10.1.4 Mitigate the negative effects of proposed development on significant historic resources in the County.

Strategy 10.1.4.1 Work with developers to think about alternative uses for historic resources such as re-adapting or moving them.

Objective 10.1.5 Develop, enhance, and promote heritage tourism opportunities.



Strategy 10.1.5.1 Continue working to expand byway routes through Milton, Bridgeville, and Lewes.

Strategy 10.1.5.2 Continue to develop historic sites to increase capacity and opportunities for tourism, particularly in the western part of the County.

Strategy 10.1.5.3 Engage stakeholders to continue tourism plans for sites throughout the County. This may include consideration of creation of a countywide history tourism committee.

Strategy 10.1.5.4 Develop through partnerships with universities and the Delaware Heritage Commission, a publication that highlights the most significant historic sites in the County in order to promote heritage tourism and education.

Goal 10.2: Provide a comprehensive approach to historic preservation planning in the County.

Objective 10.2.1 Continue to provide historic preservation assistance to municipalities in Sussex County.

Strategy 10.2.1.1 Continue partnerships with the SHPO to promote the tax credit program.

Strategy 10.2.1.2 Continue education and outreach efforts to share information about the benefits of historic preservation with local officials, including the benefits of the creation of local historic districts and protections.

Strategy 10.2.1.3 Consider revisiting and adopting a County historic preservation ordinance.

Objective 10.2.2 Serve as a comprehensive clearinghouse through the County Historic Preservation Planner and supporting departments for technical information on historic preservation to local officials and the public.

Strategy 10.2.2.1 Continue to work on additions to County's historic preservation database and publish it for public utilization.

Strategy 10.2.2.2 Consider making surveys as required by Section 106 available to the public through a partnership with SHPO, DelDOT, and DNREC.

Objective 10.2.3 Continue to support state, non-profit, and private property owner historic preservation efforts in the County.

Strategy 10.2.3.1 Support the Delaware Alliance for Nonprofit Advancement in the creation of new non-profit organizations around historic sites.



Strategy 10.2.3.2 Continue participation on the State Review Board for Historic Preservation.

Strategy 10.2.3.3 Continue education and outreach efforts to share information about the benefits of historic preservation with private property owners.





Chapter 11. Intergovernmental Coordination

<u>Intergovernmental Coordination Vision</u>: To coordinate with government jurisdictions, State Agencies, and others to promote consistency in planning approaches

11.1 MUTUAL IMPACTS AND INTER-RELATIONSHIPS

Sussex County devotes considerable effort to coordinating with government agencies at several different levels. As discussed in other chapters of the Plan, the County also maintains active working relationships with many non-profit entities that focus on issues such as conservation, housing, economic development, and historic preservation. This chapter contains a summary of how Sussex County works with others. Priorities for future intergovernmental efforts are identified in the goals, objectives, and strategies outlined at the end of the chapter. Other ways the County intends to implement this plan are also described.

11.1.1 Sussex County Municipalities

Decisions the 25 individual towns and cities make about zoning, annexation, development applications, utility services and related topics directly affect nearby unincorporated areas under County jurisdiction. Similarly, many County-level policies regarding these same types of issues impact the incorporated areas. Sussex County works with its cities and towns through these municipalities' governing bodies and local chambers of commerce. Sussex County also is a member of the Delaware League of Local Governments, which is a statewide, non-profit, nonpartisan association of municipal and county governments as well as the Delaware Association of Counties.

11.1.2 State Agencies

In addition to county and municipal influences, activities at the state-level have important implications for Sussex County. The policies and regulations administered by Delaware's state agencies play an important role in the development and preservation of Sussex County. Regarding the matters covered in this comprehensive plan, the following State agencies have a particularly important influence on the County's policy formulation and decision making:

- Delaware Office of State Planning Coordination
- Delaware Department of Transportation (DelDOT)
- Delaware Department of Natural Resources and Environmental Control (DNREC)
- Delaware Department of Labor
- Delaware State Housing Authority
- Delaware Department of Agriculture
- Delaware Department of State
- Department of Safety and Homeland Security



Coordination with the agencies is on a variety of topics, including:

- Farmland Preservation: As discussed in the Conservation Chapter, the County has
 historically contributed money to the State toward the purchase of acres of development
 rights from Sussex County farmers.
- Wastewater: As discussed in the Utilities Chapter, the County works closely with DNREC
 to provide central wastewater service, review options for wastewater solutions, and
 eliminate the use of existing onsite septic systems.
- Housing: As discussed in the Housing Chapter, the County works with the Delaware State
 Housing Authority to coordinate efforts, such as affordable housing and housing
 rehabilitation programs.
- **Historic Preservation:** As discussed in the Historic Preservation Chapter, the County works with the State Division of Historic and Cultural Affairs and the State Historic Preservation Officer on a number of archaeological and historic preservation programs.
- **Economic Development:** As discussed in the Economic Development Chapter, the County coordinates economic development efforts with the Delaware Department of Labor and several public-private partnerships.
- **Conservation:** As discussed in the Conservation Chapter, the County works with multiple state agencies on land preservation and ensuring consistency with state regulations related to natural resource protection.
- **Public Safety**: The County has funding agreements with Delaware State Police to provide State Police services in Sussex County.
- **Emergency Management**: The County coordinates with the Delaware Emergency Management Agency on emergency preparedness, training, response, recovery, and mitigation.

The County also works closely with DelDOT in recommending capital road projects in Sussex and other transportation initiatives, and the County coordinates with DelDOT every three years as part of the Corridor Capacity Preservation Program (CCPP). The County aims to improve coordination with DelDOT through a new approach of transportation planning with a goal of supporting implementation of required improvements in a timely fashion. The focus will be on a strategic, long-range, and highly coordinated process between the County, DelDOT, and the municipalities in order to truly integrate land use and transportation at a regional level to address current as well as anticipated future issues. More information about the coordination efforts with DelDOT is included in Chapter 13, Mobility.

The County also coordinates with the Office of State Planning Coordination (OSPC) on land use planning. In accordance with Chapter 92 of the Delaware Code, the OSPC and Sussex County Council co-signed a Memorandum of Understanding in 2003 concerning State review of certain County land use decisions. This agreement recognizes that some County land use decisions can: a) have far-reaching implications; and b) effectively commit resources at all levels of government.



In accordance with this agreement, the following Sussex County land use planning, zoning, and development activities require review under the State's Preliminary Land Use Service (PLUS) system:

- Any Residential Planned Community.
- Major residential subdivisions containing more than 50 dwelling units.
- Any non-residential subdivision or site plan involving the expansion of an existing structure by 25 percent with a total floor area exceeding 75,000 square feet or new construction involving structures or buildings with a total floor area exceeding 75,000 square feet.
- Any rezoning within the Environmentally Sensitive Development District that would increase intensity or residential density.
- Applications for rezoning that are inconsistent with the Sussex County's Comprehensive Plan.
- Any local land use regulation, ordinance, or requirement referred to the Office of State Planning Coordination by Sussex County for the purpose of providing the County with advisory comments. These include the modifications to the County's zoning and subdivision ordinances.
 - Any amendment, modification, or update to the Sussex County Comprehensive Plan.

The County also participates in or has membership on a number of State committees. These include the Delaware Population Consortium, Delaware Geographic Data Committee, State Tourism Committee, Emergency Management, DelDOT Capital Transportation Program, and PLUS.

Many of the goals, objectives, and strategies in each chapter of this Comprehensive Plan pertain to ways the County would like to continue and increase coordination with state agencies. These range from increased partnerships with DelDOT pertaining to evaluating capacity improvement concepts to continuing jobs training partnerships with the state. Goals, objectives, and strategies pertaining to intergovernmental coordination are outlined in Section 11.4 below and discussed in more detail in each relevant chapter of this plan.

11.1.3 Federal Agencies

Most State agencies also have working relationships with federal entities, such as the U.S. Department of Transportation, the U.S. Department of Housing and Urban Development, the U.S. Fish and Wildlife Service, the U.S. Census Bureau, the Army Corps of Engineers, the Federal Aviation Authority, the Environmental Protection Agency, the U.S. Department of Agriculture, and many others. An important part of many of these relationships involves allocating federal funds to Delaware jurisdictions, including Sussex County, and then monitoring how the local recipients use



these funds. The County receives a number of federal grants for emergency operations, airport operations, housing and urban development, housing projects, and other miscellaneous projects.

11.1.4 Other Counties

Within Delaware, Sussex County is adjacent to Kent County in Delaware and the Maryland counties of Caroline, Dorchester, Wicomico, and Worcester. Major development, economic development, transportation, and conservation trends in these nearby jurisdictions influence Sussex County. In turn, significant growth and preservation activities in Sussex County affect traffic volumes, land use patterns, economic development, environmental conditions and other aspects of life in neighboring areas.

The Sussex County Council recognizes the importance of these inter-relationships. Sussex County is a member of the Delaware Association of Counties and the National Association of Counties. Through participation in the associations, the County works closely with fellow county officials to represent local governments' interest in matters in Legislative Hall in Dover and Capitol Hill in Washington, D.C. The associations also provide an opportunity for county leaders to network and share ideas, and to be a voice for county governments on state and federal legislation that can filter down to the local level.

11.1.5 School Districts

Sussex County also has a working relationship with the County's seven school districts and one Countywide district. The County has funded certain special needs projects within these districts.

- Cape Henlopen School District
- Delmar School District
- Indian River School District
- Laurel School District
- Milford School District
- Seaford School District
- Sussex County Technical School District
- Woodbridge School District

11.1.6 Private, Non-Profits, Volunteer, and Other Organizations

In addition to cooperation with government entities, Sussex County devotes considerable time to coordinating its activities with private non-profit organizations. These organizations typically devote their efforts to a single subject area. In and around the County, many private non-profits and volunteer organizations have working relationships with Sussex County. These range from the Sussex County Land Trust, to various conservation groups, housing advocacy groups, and local chambers of commerce.

In addition, the County has partnerships with fire, ambulance, and rescue companies. The County operates Sussex County Emergency Medical Services (EMS) as a non-transporting EMS agency



providing paramedic services. The County EMS uses eight specially designed Advance Life Support (ALS) rapid response vehicles. Each vehicle is stationed at one of eight paramedic stations located throughout the County. The ambulance transportation of patients is provided by 21 Basic Life Support (BLS) transport services (with a SCEMS Paramedic on-board if the patient meets ALS criteria), or by ALS helicopter service provided by the Delaware State Police and Life Net, which are both stationed in Sussex County. The County supplements its emergency services by partnering with the volunteer fire companies and providing funding for fire and ambulance services.

11.1.7 Libraries

The Sussex County Department of Libraries supports 14 public libraries and a bookmobile. Those libraries operated by the County include Greenwood, Milton, and South Coastal libraries as well as the bookmobile. The other libraries are independent but receive operational and some financial support by the County. The libraries include Bridgeville, Delmar, Frankford, Georgetown, Laurel, Lewes, Milford, Millsboro, Rehoboth Beach, Seaford, and Selbyville.

11.2 INTERGOVERNMENTAL COORDINATION USED IN PREPARING THIS PLAN

The previous parts of this chapter identify the numerous areas where Sussex County coordinates with other levels of government on an on-going basis, including the State, federal agencies, the other Delaware counties, Sussex County municipalities, Sussex County school districts, libraries, and private non-profits and volunteer organizations. As the following text indicates, Sussex County also included intergovernmental coordination in the preparation of this Comprehensive Plan Update, particularly consultation with the County's incorporated municipalities and with relevant Delaware state agencies.

11.2.1 Coordination with the Incorporated Municipalities

In formulating this Comprehensive Plan Update, Sussex County considered the comprehensive plans, annexation areas, and utility service policies of the local towns and cities. Copies of the most recent approved comprehensive plans and annexation area spatial data was acquired for all towns. As a first step to updating its Future Land Use Plan and Map, Sussex County reviewed the existing or proposed comprehensive plan for each of the County's 25 incorporated municipalities. Particular attention was paid to municipal future annexation areas to ensure consistency with County Future Land Use.

The County Planning and Zoning Office also coordinated with the municipalities throughout the planning process through a combination of emails, phone calls, or in-person meetings to provide information about the Comprehensive Plan process and to discuss municipal land use plans or concerns. Information from this verbal coordination was also utilized when drafting the Future Land Use Chapter and Map and in drafting goals, objectives, and strategies for other chapters.



As part of the comprehensive planning process, Sussex County also met with the Sussex County Association of Towns (SCAT). Updates were given to the association about the planning process and municipal representatives were invited to participate in public meetings, Planning and Zoning Commission Workshops, and other methods of public input.

11.2.2 Coordination with the State

In preparing this Comprehensive Plan Update, Sussex County coordinated with the State in the following ways:

- The County coordinated with the Delaware Population Consortium to request seasonal population estimates. Much of the other demographic data used in this plan was from the Delaware Population Consortium.
- Most maps in this plan stem from digital base map files or other digital mapping provided through DE FirstMap, which is a repository of geospatial data from sources including DNREC, OSPC, and other state agencies.
- Members from state agencies including the OSPC, DelDOT, DNREC, DSHA, and Delaware Department of Agriculture participated in the planning process by attending meetings.
- DelDOT was involved in drafting Mobility Chapter included in this plan. DelDOT also attended and participated in all of the Planning and Zoning Commission Workshops as the plan was being drafted as well as the public meetings held in connection with this plan.

11.3 COMPARISON OF OTHER RELEVANT PLANNING DOCUMENTS

A review of other relevant planning documents was conducted as part of the planning process used to prepare this plan. As described above, municipal comprehensive plans were acquired and reviewed, particularly when drafting the Future Land Use Plan and the Utilities Chapter. Additionally, existing County planning documents were reviewed, and relevant information was incorporated into applicable chapters. Examples of this include:

- The County Hazard Mitigation Plan was reviewed, and information and strategies were included the Conservation Chapter of this plan to support the goals of that plan.
- Additionally, County wastewater studies were reviewed when developing the Utilities Chapter.
- County Zoning Code was reviewed when drafting the Future Land Use Plan



 County Zoning and Subdivision and Land Development Regulations were reviewed throughout drafting of the chapters in order to incorporate relevant information pertaining to current County code.

Relevant state planning documents were also reviewed and utilized during the drafting of this plan. Examples of this include:

- Data and information from the DSHA's Delaware Statewide Housing Needs Assessment were used heavily in the drafting of the Housing Chapter.
- DelDOT's Transportation Operations Management Plan and Strategic Implementation Plan for Climate Change Sustainability & Resilience for Transportation were reviewed in drafting the Mobility Chapter.
- The State National Register of Historic Places was reviewed when drafting the Historic Preservation Chapter.
- DNREC's Comprehensive Outdoor Recreation Plan was reviewed when drafting the Recreation and Open Space Chapter.

11.4 INTERGOVERNMENTAL COORDINATION GOALS, OBJECTIVES, AND STRATEGIES

Below is a list of goals, objectives, and strategies for Sussex County's Intergovernmental Coordination Element. Implementation of the strategies will be important to the success of this Comprehensive Plan as a whole. There are additional strategies contained throughout the chapters of this plan related to intergovernmental coordination needs that address specific initiatives or issues. These are included in more detail in the individual chapters.

Goal 11.1: Initiate and/or participate in the intergovernmental coordination activities needed to ensure consistency among federal, state, regional, county, and local governmental plans, policies, and activities.

Objective 11.1.1 Continue coordination efforts with State agencies.

Strategy 11.1.1.1 Coordinate with the Delaware Office of State Planning Coordination to collaboratively develop ways to improve the PLUS process.

Strategy 11.1.1.2 Coordinate with the Delaware Office of State Planning Coordination to confirm that future boundaries of State Priority Spending Areas (Levels I through IV) match the growth area delineations described in this Comprehensive Plan Update.



- **Strategy 11.1.1.3** Coordinate with DelDOT on road improvements and other transportation projects. This includes coordination on construction to anticipate future road and infrastructure improvements needed to enhance mobility. This also includes coordination with DelDOT on the timing of road improvements as it relates to County's land use decisions.
- **Strategy 11.1.1.4** Work with the Delaware Department of Agriculture to preserve more Sussex County farms through agricultural preservation easements as well as to maximize the value of the compensation paid to the landowners.
- **Strategy 11.1.1.5** Cooperate with DNREC to formulate effective, yet locally acceptable, strategies for better protecting groundwater, waterways, watersheds sensitive habitat areas, and other critical natural lands in Sussex County.
- **Strategy 11.1.1.6** Work with the DNREC and the Delaware Department of Agriculture to continue adding appropriate properties to the inventory of protected lands in Sussex County, particularly to link together existing State-owned forests and existing open space.
- **Strategy 11.1.1.7** Seek guidance from the Delaware State Housing Authority on how best to continue expanding Sussex County's response to local affordable housing needs.
- **Strategy 11.1.1.8** Continue coordination with the State Fire Marshal Office to ensure development complies with State Fire Protection regulations.
- **Objective 11.1.2** Continue coordination with the County's municipalities, school districts, and other agencies operating in the County.
 - **Strategy 11.1.2.1** Continue coordination with the County's 25 towns and cities, with particular focus on annexation, municipal zoning, future utility service areas, road improvements, large development applications, recreation and open space, and historic preservation.
 - **Strategy 11.1.2.2** Continue to coordinate with local governments to ensure consistency in land use planning for lands adjacent to an incorporated area.
 - **Strategy 11.1.2.3** Coordinate with the State Department of Education and school Districts to plan for future growth.
 - **Strategy 11.1.2.4** Continue participation in SCAT and the League of Local Governments.
 - **Strategy 11.1.2.5** Continue education and outreach efforts to share information about the benefits of historic preservation with local officials, including the benefits of the creation of local historic districts and protections.



Strategy 11.1.2.6 Continue to support the Sussex Conservation District in the management and implementation of the Statewide stormwater regulations, tax ditches, and other programs.

Objective 11.1.3 Continue coordination efforts with private, non-profit, and volunteer organizations.

Strategy 11.1.3.1 Cooperate with relevant non-profits to formulate effective, yet locally acceptable, strategies for better protecting groundwater, waterways, watersheds, sensitive habitat areas, and other critical natural lands in Sussex County.

Strategy 11.1.3.2 Work with the Sussex County Land Trust and non-profits to continue adding appropriate properties to the inventory of protected lands in Sussex County, particularly to link together existing State-owned forests and existing open space.

Strategy 11.1.3.3 Seek guidance from relevant non-profits on how best to continue expanding Sussex County's response to local affordable housing needs.

Strategy 11.1.3.4 Continue seeking advice from and providing County financial support to appropriate non-profit organizations that serve Sussex County in an exemplary way.

Goal 11.2: Maintain sufficient public services.

Objective 11.2.1 Continue coordination and support for entities providing public facilities and services in the County.

Strategy 11.2.1.1 Continue to support the Delaware State Police trooper allocation for Sussex County.

Strategy 11.2.1.2 Continue to support local volunteer fire, ambulance companies, local fire departments, libraries, and community groups.

Objective 11.2.2 Coordinate the planning efforts for public facilities and services with the timing of development in the County.

Strategy 11.2.2.1 Continue coordination between the County Engineering Office and the Planning and Zoning Office.

Objective 11.2.3 Continue to grow County public services.

Strategy 11.2.3.1 Ensure that paramedic facilities and staffing are sufficient and meet public demand.

Strategy 11.2.3.2 Continue to coordinate utilities with the municipalities.



11.5 INTERGOVERNMENTAL COORDINATION AND PLAN IMPLEMENTATION PRIORITIES

The intergovernmental coordination strategies enumerated above will be key in implementing this Comprehensive Plan. Selected updates to the County's Zoning Ordinance and the County's Subdivision Code will also be critical to ensure that appropriate recommendations in this plan are translated into ordinance. This Comprehensive Plan will also be a valuable tool for the County in developing its annual Capital Improvement Program.

11.5.1 Sussex County Capital Improvement Program

Sussex County Council adopted its most recent budget on June 13, 2017. In addition to describing operating costs and revenues for Fiscal Year 2018, a Capital Project Program is included for FY 2018 through FY 2022. This Capital Projects Program divides anticipated capital projects into two types: a) Non-Sewer and Water Projects; and b) Sewer and Water Projects.

As the name implies, Non-Sewer and Water Projects include capital projects the County will undertake that are not related to public sewer or public water improvements. For example, the County is committed to investing in the Delaware Coastal Business Park to continue adding jobs and benefitting the County's economy. Sussex County funds Non-Sewer and Water capital improvements from general revenues.

Sewer and Water Projects are capital improvements that Sussex County will undertake to protect environmental conditions in its sewer and water districts. These projects are designed primarily to extend County wastewater conveyance and treatment services into areas that currently use on-site septic systems. Sewer and Water Projects also include expansions and upgrades to the four wastewater treatment plants that Sussex County owns and operates. The County funds its capital Sewer and Water Projects through two types of user fees: assessment charges to recover the costs of bond funds borrowed for specific projects, and one-time fees that new customers must pay for connecting to the County's system.

The following table shows the costs of capital improvements Sussex County now plans for FY 2018 through FY 2022. The revenue sources the County anticipates using to pay for these projects are also shown.



Table 11.5-1 Sussex County Council – Capital Improvements Program FY 2018-2022						
Project	Total for FY 2018 through FY 2022	2018	2019	2020	2021	2022
	NON-SEWER AND W	ATER PROJE	CTS (GENER	AL FUND)		
Administrative						
Building Improvements	\$637,000	\$487,000	\$100,000	-	-	\$50,000
Maintenance Building	\$1,250,000	\$1,250,000	-	-/	-	-
Fiber Optics	\$5,110,000	\$1,110,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
CAMA System	\$30,000	\$30,000	-	-	-	-
Land Acquisition & Improvements	\$2,000,000	\$2,000,000	- /	-	-	-
Airport and Industrial Park						
RW 4-22-6000' Expansion	\$1,000,000	- /	-	-	-	\$1,000,000
Stormwater Improvements	\$560,000	\$200,000	\$100,000	\$100,000	\$100,000	\$60,000
Electrical Upgrades	\$500,000	\$500,000	-	-	-	-
Taxiway A Improvements	\$350,000	/ -	\$350,000	-	-	-
Land Acquisition	\$540,000	\$540,000	-	-	-	-
Building Improvements	\$145,000	\$45,000	\$100,000	-	-	-
Aeronautical Obstruction	\$1,231,000	\$120,000	\$500,000	\$611,000	-	-
RW 10-28 Parallel Taxiway	\$6,085,000	\$485,000	\$2,800,000	\$2,800,000	-	-
13 Spot Tiedown Apron	\$380,000	-	\$180,000	-	\$200,000	-
Industrial Park Improvements	\$4,400,000	\$3,400,000	\$1,000,000	-	-	-
Pavement Improvements	\$1,725,000	\$1,525,000	\$200,000	-	-	-



Table 11.5-1 Sussex Cou	Table 11.5-1 Sussex County Council – Capital Improvements Program FY 2018-2022						
Project	Total for FY 2018 through FY 2022	2018	2019	2020	2021	2022	
Master Plan Update	\$500,000	-	-	-	\$500,000	-	
Expand Main Apron	\$300,000	-	-	-	-	\$300,000	
Water Plant	\$250,000	\$250,000	-	-	-	-	
				/			
Engineering				/			
Landfill Property Acquisition	\$950,000	\$150,000	\$200,000	\$200,000	\$200,000	\$200,000	
Public Safety							
Mobile Command Unit	\$400,000	\$400,000	<u> </u>	-	-	-	
Stations	\$1,900,000	\$950,000	\$200,000	\$750,000	-	-	
TOTAL CAPITAL IMPROVEMENT	\$30,243,000	\$13,442,000	\$6,730,000	\$5,461,000	\$2,000,000	\$2,610,000	
EXPENDITURES		/					
FUNDING		<u> </u>					
Appropriated Reserves	\$10,571,250	\$8,571,250	\$1,000,000	\$1,000,000	-	-	
Federal Grants	\$7,546,500	\$436,500	\$2,970,000	\$2,520,000	\$450,000	\$1,170,000	
Investment Income	\$80,000	\$20,000	\$15,000	\$15,000	\$15,000	\$15,000	
Interfund Transfer (RTT)	\$11,046,000	\$4,000,000	\$2,540,000	\$1,636,000	\$1,510,000	\$1,360,000	
State Grants	\$999,250	\$414,250	\$205,000	\$290,000	\$25,000	\$65,000	



Table 11.5-1 Sussex Cou	Table 11.5-1 Sussex County Council – Capital Improvements Program FY 2018-2022						
Project	Total for FY 2018 through FY 2022	2018	2019	2020	2021	2022	
TOTAL FUNDING SOURCES	\$31,243,000	\$14,442,000	\$6,730,000	\$5,461,000	\$2,000,000	\$2,610,000	
			•				
	SEWER AND WATER	R PROJECTS	(ENTERPRIS	E FUND)			
Enterprise Fund Expenditures							
IBRWF-Spray Demand Loop	\$3,300,000	\$ 250,000	\$1,000,000	\$2,050,000	-	-	
IBRWF-Treatment/Disposal Expansion	\$23,500,000	\$750,000	\$10,000,000	\$12,750,000	-	-	
IBRWF-Regional Biosolids/Septage	\$15,710,000	\$500,000	\$5,700,000	\$9,510,000	-	-	
SCRWF-Capacity Expansion	\$31,728,000	\$750,000	\$7,000,000	\$11,750,000	\$12,228,000	-	
SCRWF-Compliance Upgrades	\$12,184,000	\$750,000	\$4,000,000	\$6,200,000	\$1,234,000	-	
WNRWF-Conversion	\$10,417,000	\$500,000	\$3,000,000	\$3,000,000	\$3,917,000	-	
Angola North Sewer District	\$8,020,000	\$1,000,000	\$4,000,000	\$3,020,000	-	-	
Pump Station #196 – Transmission to LBPW	\$1,650,000	\$1,650,000	-	-	-	-	
Goslee Creek Main P.S.	\$500,000	\$500,000	-	-	-	-	
Rehoboth Beach WWTP/Outfall Contribution	\$21,280,000	\$1,430,000	\$15,700,000	\$4,150,000	-	-	
Pump Station #201 -& Transmission to RB WTF	\$2,500,000	\$750,000	\$750,000	\$1,000,000	-	-	
Concord Road/Route 13 Commercial-BLSSD	\$4,000,000	\$1,800,000	\$1,500,000	\$700,000	-	-	
RT. 54 Expansion of FISSD	\$2,050,000	\$2,050,000	-	-	-	-	
RT. 26- PS#311/Irons Lane	\$1,000,000	\$1,000,000	-	-	-	-	



Table 11.5-1 Sussex Cou	Table 11.5-1 Sussex County Council – Capital Improvements Program FY 2018-2022					
Project	Total for FY 2018 through FY 2022	2018	2019	2020	2021	2022
Chapel Branch-CBSSD	\$4,800,000	\$300,000	\$1,250,000	\$2,250,000	\$1,000,000	-
Mallard Creek-HLSSD	\$2,000,000	\$100,000	\$1,900,000	-	-	-
Branch/Autumn/Tucks Roads - LNSSD	\$1,600,000	\$100,000	\$850,000	\$650,000	-	-
Mulberry Knoll	\$2,900,000	\$100,000	\$1,800,000	\$1,000,000	-	-
Herring Creek Sewer Area	\$20,215,000	\$1,000,000	\$2,000,000	\$9,500,000	\$7,715,000	-
Tanglewood-Bayard PS#1	\$1,500,000	\$200,000	\$1,300,000	-	-	-
Oak Acres-Bayard PS#5	\$2,600,000	-	\$2,600,000	-	-	-
Ellendale Water District	\$5,350,000	\$50,000	\$300,000	\$2,500,000	\$2,500,000	-
Western Sussex Sewer District	\$15,000,000	\$100,000	\$3,000,000	\$7,000,000	\$4,900,000	-
Route 54 Force Main	\$1,000,000	\$500,000	-	-	-	\$500,000
Joy Beach Sewer Area	\$0	-/	-	-	-	-
Land Conservation & Impr.	\$3,500,000	\$3,500,000	-	-	-	-
Millville Expansion – Beaver Dam	\$1,600,000	-	-	-	\$100,000	\$1,500,000
Bethany Forest Sewer Area	\$2,500,000	-	-	-	\$500,000	\$2,000,000
TOTAL EXPENDITURES	\$202,404,000	\$19,630,000	\$67,650,000	\$77,030,000	\$34,094,000	\$4,000,000
	/					
FUNDING						
User Fees/Third Party Contributions	\$63,391,000	\$3,930,000	\$29,400,000	\$24,910,000	\$5,151,000	-
Connection Fees	\$65,678,000	\$8,000,000	\$18,600,000	\$26,850,000	\$12,228,000	-
Federal/State Funding	\$73,335,000	\$7,700,000	\$19,650,000	\$25,270,000	\$16,715,000	\$4,000,000
TOTAL FUNDING SOURCES	\$202,404,000	\$19,630,000	\$67,650,000	\$77,030,000	\$34,094,000	\$4,000,000



Chapter 12. COMMUNITY DESIGN

<u>Community Design Vision</u>: To encourage the development of neighborhoods of innovative and superior design to preserve and enhance the character and community of Sussex County.

12.1 OVERVIEW

At one time, Sussex County consisted mainly of small towns surrounded by rural countryside. The towns were characterized by compact neighborhoods, small-town "Main Street" business areas, and a mix of traditional architectural styles. The rural areas featured working family farms, crossroads villages and extensive woodlands, all connected by country roads.

Sussex County is still an attractive place, with many towns having elements of their traditional character and style. Much of the rural countryside remains picturesque farmland. Many new developments have included well-designed open spaces and carefully designed buildings and amenities. However, crowded highways, strip commercial development, cookie cutter subdivisions, nondescript construction, and other aspects of suburban sprawl now exist in some areas. In certain areas of the County's eastern sector and along some higher volume state roads, there is little physical distinction between the town and the country.

The key is to design modern land uses in a manner that adds to the character of the community, instead of intruding into it. Some of these changes have expanded economic opportunities, brought commercial services, provided new housing opportunities and created convenient road connections. Yet, too often new construction has occurred with little thought towards design, causing parts of Sussex County to have the same overly standardized appearance as many other parts of the country.

This Plan recognizes that change is inevitable. At the same time, the County is looking for the best ways to direct the location, appearance and function of new development. This chapter discusses how to use zoning, subdivision regulations and other means to produce development that is based on rational site planning, and forward-thinking design. Many of the techniques discussed illustrate how to incorporate open space and traditional design elements into new settings, an attempt to draw from the best of the old and the best of the new.

It also is important to maintain an attractive environment for economic development reasons. Visitors and new residents come to Sussex County for an attractive setting, where they can enjoy waterways, beaches and other natural areas. If Sussex County becomes unattractive, with garish signs, excessive numbers of billboards, destruction of natural features, and monotonous construction, it will harm economic growth.

The purpose of this plan element is to support and encourage development concepts that promote a variety of design concepts and styles. While the County recognizes that development is market-driven and that each site and each development proposal is unique, it encourages concepts that protect the rural character of the County, protect a site's environmental assets, and take into



account the character of surrounding development. This chapter does not seek to regulate new construction or design, but rather serve as a guide for developers and their designers to consider in the future planning and development of land.

12.2 PROMOTING BETTER COMMUNITY DESIGN

Sussex County Code contains regulations for the subdivision of land and zoning. Through the code, Sussex County currently uses two primary methods to encourage better community design: Residential Planned Communities and Cluster Development. Master planning, or small area planning, provides an additional tool for Sussex County to encourage better, more cohesive, community design in specific areas.

12.2.1 Residential Planned Communities

The purpose of the Residential Planned Community (RPC) District is to encourage large-scale developments as a means of creating a superior living environment through unified developments, providing for the application of design ingenuity while protecting existing and future developments, and achieving the goals of the Comprehensive Plan. By integrating many elements of design, this district encourages off-street parking, ensures the appropriate relationship between uses, intensity, and height within and outside of the RPC, and allows the Planning and Zoning Commission to impose conditions regarding layout and design.

An applicant may ask the County to add this option to their property as an option to the regular zoning provisions. RPC provisions:

- Usually allow a mix of housing types, including single-family homes, townhouses and apartments.
- Provide for a slightly higher density than the density that is possible without use of the RPC provisions, in order to provide an incentive.
- Allow a percentage of the tract (such as up to 15 percent) to be developed in neighborhood-oriented commercial uses that are highly compatible with homes.
- Give the County the authority to modify zoning requirements, such as setbacks, within a RPC development.

12.2.2 Cluster Development

Another method that Sussex County employs to encourage better community design is the cluster development option. Cluster development or "open space development" involves providing incentives for the permanent preservation of a percentage of the land within a new development by allowing deviation in lot size, type of dwelling, lot coverage and open space from that which is normally required by a residential zoning district. Cluster development also permits the developer to reduce road lengths, amounts of grading and lengths of utility lines - each of which saves on construction and maintenance costs.



In a cluster development, the "open" or conserved land is typically owned and maintained by a homeowner association, although other methods of ownership are possible. The homes are allowed to be placed on smaller lots than would normally be required, or different types of housing are allowed to offset the land used as open space. The County offers greater flexibility in lot sizes and dimensions in return for the open space. The open space is permanently preserved by a conservation easement that prevents future subdivision or building on the open space.

In comparison, conventional subdivisions usually result in little or no preserved open space (except wetlands and stormwater management areas) because the balance of the entire tract is subdivided into building lots. Often, most of the building lots in a conventional subdivision are virtually the same size and shape—hence the nickname "Cookie Cutter Subdivisions."

The cluster option has been very widely used in Sussex County in recent years. It is available in the AR-1 zoning district, which covers most of the undeveloped land areas in the County. The cluster option has also made it more economical to develop central water and sewage systems in rural locations.

It requires cluster developments that provide for a total environment and design which are considered superior to that which would be allowed under the regulations for the standard option subdivision. Criteria for "superior design" are contained in the Sussex County Code and include information ranging from the clustering of homes during site design site to the design of open space.

12.2.3 Master Planning and Small Area Plans

The County would like to encourage more master planning of large-scale developments on large parcels or groups of smaller parcels in order to provide flexibility in the design of a site's buildings, trails and pedestrian paths, roads, and open space as well as encourage interconnectivity between parcels of land. With County involvement in large scale master plans, there is opportunity to plan for a larger area and create automobile, bike and pedestrian connections between developments.

Development of small area plans provides Sussex County with the opportunity to develop long-range plans – just like a comprehensive plan – but applied to smaller, more specific areas of the County. A small area plan is an aspirational community plan that addresses an area's unique characteristics and then develops a vision for the future, as property ownership and other conditions change over time. It enables the County to prioritize and coordinate capital projects and to set the stage for ensuing private investment. With goals to enhance quality of life, small area plans address elements of the built environment - housing, businesses, parks/open space, public improvements, and the transportation network that connects them.

12.2.4 Other Design Standards



Recently, Sussex County Council determined that the County's Street Design Standards were outdated and needed updating. In addition, the Council wanted to ensure that the street design standards contained in the County Code contain flexibility to enable creativity in design (taking into account existing topographical and environmental features) while providing safe communities for County residents. On March 28, 2017, Sussex County Council passed a drainage and grading ordinance. The ordinance includes new street design requirements related to driveways, on-street parking, sidewalks, and cul-de-sacs, among others.

12.3 DESIGN AND DEVELOPMENT CHARACTERISTICS

The County recognizes that development in the County is market-driven and often the design of new development reflects the desires of the current market. However, creative approaches can be considered in new development. The County does not regulate the incorporation of design standards but encourages that the following design standards be considered when designing new development:

12.3.1 Trees

The planting of street trees can improve aesthetics and eventually provide a canopy of shade over streets. Studies show that mature street trees can also increase the value of homes up to 10 percent. If it is not appropriate to have shade trees in the right-of-way, they can also be planted immediately outside of the right-of-way.

The County would like to consider the creation of an ordinance designed to protect established, mature, healthy trees during the construction of new developments to better preserve existing trees and green space.

12.3.2 Lighting

New street lights could be similar in design to older styles of street lights. In addition, downward screening of outdoor lights on residential and commercial properties should be provided whenever feasible to prevent intrusion into adjoining residential areas.

12.3.3 Sidewalks

Sidewalks (or asphalt paths along main roads in rural areas) are an important element in residential neighborhoods that increase safety and connectivity for pedestrians and can provide them with an ability to walk or bicycle to stores, schools and parks. Also, overly wide residential streets and intersections should be avoided when possible to discourage speeding and to make it easier for pedestrians to cross the street.

12.3.4 Parking Location

Whenever practical, parking should be located to the rear or side of buildings, so that the front yard can be landscaped. When parking and garages are placed to the rear of lots, with access



using alleys, this design avoids conflicts between sidewalks and vehicles backing into the street and allows the entire curbside to be available for on-street parking.

If rear access to garages is not practical, then garages should enter onto the side of homes whenever possible, particularly on corner lots. If a front-entrance garage is proposed, it should be designed so that it is not an overly prominent part of the street. For example, a one lane driveway can pass along the side of a house and then widen to enter a two-car garage that is setback from the front of the house. "Snout" houses should be avoided that have a front entrance garage as the home's most prominent feature.

12.3.5 Building Orientation

Buildings can be placed relatively close to the street, with front or side porches, to encourage interaction among neighbors. On a corner lot, a side porch can have the same effect. If residents spend time on their front porch, they can help oversee the neighborhood and report suspicious activity to the police.

Additionally, the use of flag lots should be avoided whenever possible. A "flag lot" is a lot that has a narrow land area connecting the main part of the lot to a road. The narrow stretch includes the driveway. As such, the building is set back far from the street. Flag lots should be controlled so they are not overly used; however, one or two flag lots within a development can be beneficial at the end of a road to allow a greatly reduced length of road.

12.3.6 Building Height

Building height is regulated in County Code, which includes maximum height requirements for each zoning district. However, since this is a maximum permitted height, not all neighboring properties or developments may have built to that maximum. When practical, building heights of new development should be compatible with the scale and character of existing neighborhoods and surrounding developments.

12.3.7 Maximum Building Setbacks and Limits on Front Yard Parking



In key older areas of the County, it may be appropriate to specifically establish a maximum building setback. The goal is to have new construction be consistent with prevailing setbacks along a block of older buildings. The code can also limit new parking in the front yard in older areas. The goal is to encourage front yard setbacks that are relatively small, but well landscaped.



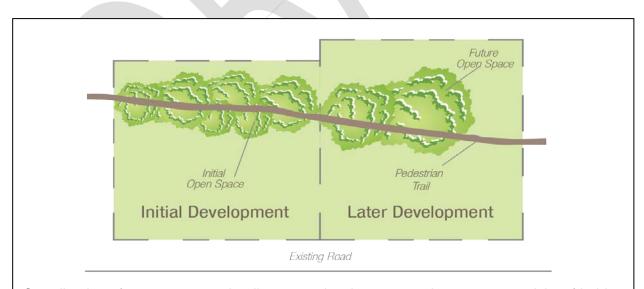
Pitched roofs, varied rooflines and architectural details can add visual interest.

12.3.8 Architectural Elements

The use of architectural details, pitched roofs, and varied rooflines can add visual interest, even for chain stores. While the County does not regulate architectural elements of the design of a development's buildings and facilities, the County is open to the use of unique architectural elements in design and is considering creation of an awards program to recognize outstanding design of both buildings and sites.

12.3.9 Open Space and Trail Connectivity

The coordination of open spaces and trails across various developments can provide benefits to both wildlife habitat as well as pedestrian connectivity. When considering open space and trail locations in a current proposed development, future linkages on adjacent future development tracts should be considered.

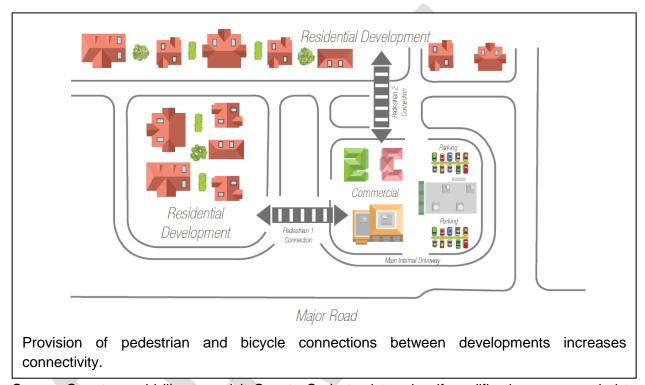


Coordination of open space and trails across developments enhances connectivity of habitat and pedestrian access.



12.3.10 Pedestrian and Bicycle Connectivity

The provision of pedestrian and bicycle connections between various developments can encourage walking and cycling and increase access to community facilities such as parks, schools, and libraries. Where a road does not provide a connection, a hard-surfaced pedestrian easement could be provided. Additionally, in larger commercial developments interconnectivity should be integrated into site design and most vehicle traffic should be directed to routes that do not conflict with the main pedestrian entrances from parking lots.

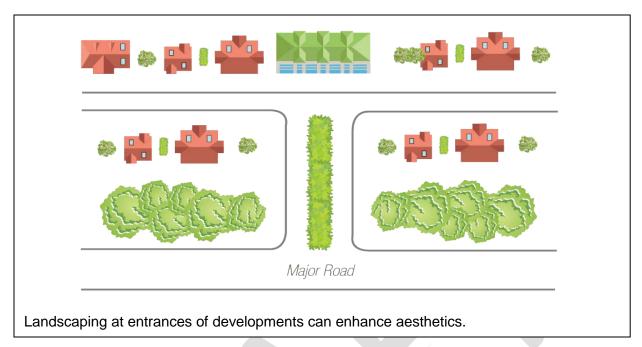


Sussex County would like to revisit County Code to determine if modifications are needed to encourage interconnectivity between residential developments as well as develop connectivity standards for new developments in order to create multiple, alternate routes for automobiles and more route options for people on foot and on bicycles.

12.3.11 Landscaped Entrances

Creation of well landscaped boulevard-style entrances can provide a great first impression. Along major roads, reverse frontage lots should be used when feasible to minimize the number of driveways entering onto major roads. When rear yards face onto a major road, they should be separated by landscaping, with any fencing on the inside of the landscaping. Open space should be provided along major roads to maintain some of the rural character and to reduce noise conflicts between homes and traffic.

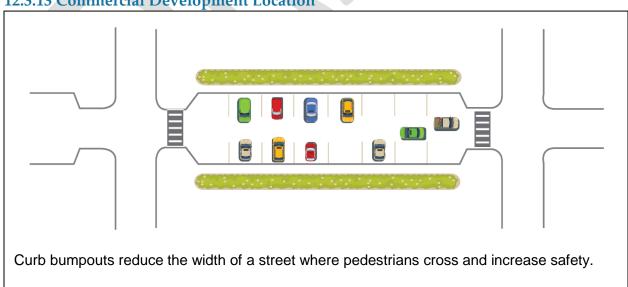




12.3.12 Curb Bumpouts

On residential streets and some streets in commercial areas, there may be a possibility for curbs to be extended outward at intersections so there is less width of street that needs to be crossed by pedestrians. The street can then be widened where on-street parking spaces are provided. By reducing the street width where there is not a need for parking, it also reduces the amount of pavement and runoff and reduces construction and maintenance costs.

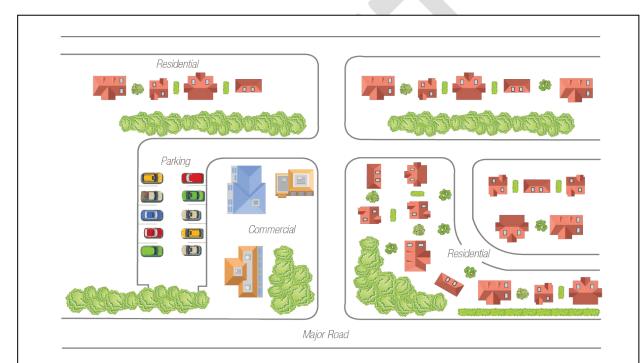
12.3.13 Commercial Development Location





In larger residential developments, an area of neighborhood-oriented stores and services can be desirable to serve local needs. Mixed-use development or well-distributed commercial areas throughout the County can also reduce the lengths of driving trips, or provide the option of walking, for everyday needs. Because retail and neighborhood services require a large enough population to be viable, multiple RPCs can be designed to provide pedestrian and vehicular network access to the same commercial area, rather than providing retail in each large development.

The County does not currently have a mixed-use zoning district; however, code should be revisited to determine if a mixed use district is feasible and appropriate in the County. Likewise, the RPC districts should be expanded for use in commercially-zoned areas where residential uses are permitted.



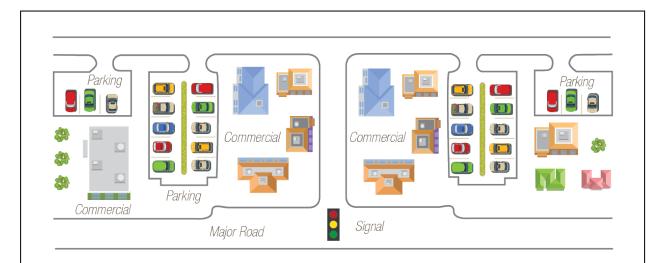
Mixed used development or the location of commercial areas near residential areas, when appropriate, can reduce the length of driving trips, or provide the option of walking, for everyday needs.

12.3.14 Commercial Development Design

Commercial buildings should be encouraged to be placed relatively close to the road, provided they still allow proper sight distance and room for future road widening. Most vehicle parking



should be placed to the rear or side of buildings when possible. At best, a new street or alley or interconnected parking aisles should be provided parallel to the major road so that most traffic can access the main road at a traffic signal. The commercial area should also be well-buffered from nearby homes by landscaping.



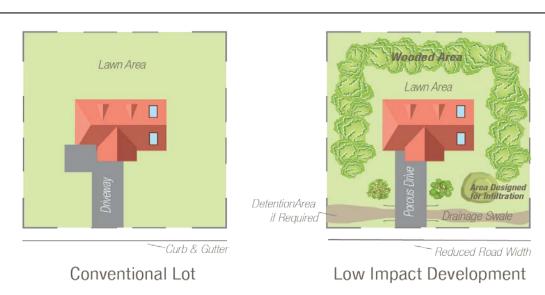
Parking should be provided on the side or rear for commercial buildings located relatively close to the road.

12.3.15 Preserved Open Space within New Developments

Preserved open space can often increase values of adjacent homes. Open space development can also help retain more naturalistic stormwater patterns, which promotes groundwater recharge and protects water quality. This is because stormwater swales can be wider and vegetated, as opposed to having stormwater piped or constrained within narrow channels to avoid losing density.

As described above, the RPC provisions in the County's Zoning Ordinance allow flexibility in the standards for larger developments, in return for a higher quality of site design. However, there currently is no minimum open space requirement for these developments. Greater attention is needed to the design of the open space to make sure it serves a valuable public purpose and is inter-connected. The amount of open space can vary with the allowed density, based upon the underlying zoning district. The preserved open space should be used to help to maintain the scenic character of the County by preserving landscaped open areas along major roads and to maintain forested buffers between developments.





The sketches above compare a lot that is mostly grass with stormwater directed into the gutter of a street, to a lot with much lower environmental impacts. The low impact lot involves directing some runoff into an area to recharge into the ground and using drainage swales that filter out some pollutants before the water reaches a waterway. The low impact lot also maximizes the amount of the lot covered by trees.

In addition, the County offers greater flexibility in lot sizes and dimensions in return for the open space in cluster subdivisions. In cluster development, the applicant should show that the development has been carefully located to protect important natural areas, including mature forests and waterways. Open spaces should be linked together whenever possible, as opposed to being small, fragmented or narrow areas. Land areas should not be allowed to be counted towards the required open space unless they serve the residents of a community. Stormwater ponds should only count as open space if they are designed to resemble a natural pond or are suitable for a recreational purpose. Careful attention should also be focused upon what types of water and sewage facilities should be allowed to count as open space. Generally, spray irrigation fields and well sites should be able to count as open space, but other treatment facilities should not. Also, golf courses can be suitable for open space, as long as there also is a recreation area that is available for use by all residents.

Trees should be planted in open space areas where appropriate. Landscape tree specimens should be planted in active open space areas where appropriate, particularly around playgrounds.

It may be desirable to allow a reduction in the amount of active open space if the developer provides substantial recreation facilities. However, if a pool, recreation center, or community



center are built, significant forethought must be put into determining how these facilities will be operated, maintained, and funded.

Several alternatives exist for long term maintenance of the preserved open space, including ownership by a legally-binding homeowners association, the County, or a land trust. The areas needing the least maintenance would be areas preserved in forests or wetlands. In some cases, the open space could remain in one large agricultural use or a horse farm, with pedestrian trails around the edge of the farm for use by the residents.

Wherever feasible, open space should be provided in locations that can connect to existing public or semi-public open spaces or preserve land along a waterway. Required open spaces should be required to include pedestrian trails that are accessible by the residents, and preferably by the public. As discussed above, the trails should connect to other neighborhoods, nearby commercial areas, and public lands. Master planning of large parcels of land provides the high-level view and opportunity to incorporate the design and location of new trail connections and extensions of existing trails into new development plans.

In order to promote better access to and less fragmentation of open space, Sussex County would like to revisit County Code to determine if modifications are needed to open space requirements or if incentives can be developed.

12.3.16 Buffering and Landscaping

Forested buffers should continue to be provided within and around new residential developments, and include the preservation existing trees and other natural vegetation where possible. Additionally, in developed areas, a high impervious coverage can still be attractive with proper landscaping. In these areas, street trees and shade in parking lots should be encouraged. Buffering is also particularly important between new businesses and residential neighborhoods. A buffer yard in some cases can be strengthened with a berm. To minimize the amount of land that is consumed by a berm, a retaining wall could be used on the business side of the berm. The County should also encourage fencing when needed on the business side of buffer yard landscaping.

12.3.17 Water Features

Wetlands, as defined under Section 404 of the Clean Water Act, and uplands along waterways should be preserved as passive open space whenever possible. Existing native vegetation should be retained, and additional native plantings should be considered in areas where natural vegetation is sparse. To the extent possible, trails should be constructed on upland areas. If a wetland must be crossed, the wetland crossing should be the shortest distance possible and the walkway should be elevated. In tidal wetlands, the boardwalk should be elevated to allow vegetation to grow under the boardwalk.

12.3.18 Utilities



The wires, poles, and other equipment associated with overhead power and communications utilities can obscure views and scenery. If feasible, overhead utilities should be located underground.

12.3.19 Redevelopment

While the majority of development that occurs in the County is new development, redevelopment of existing sites may become increasingly important in the long-term future of the County. Redevelopment can rehabilitate and add to the housing stock, improve economic conditions, and breathe new life into an area that may be deteriorating. Redevelopment should be encouraged whenever possible.

12.3.20 Green Site Design

Green site design involves incorporation of methods into design and construction that minimize impact on the environment. Green site design can involve the use of solar energy, which may simply involve "passive" solar heating by maximizing the use of natural sunlight for internal lighting. An emphasis is placed upon minimizing the amount of fossil fuels that must be used for heating, air conditioning and ventilation. A simple principle is to locate buildings to maximize southern exposure to the sun. This involves placing large number of windows on the south side of a building, to allow natural heating and lighting. Deciduous trees should then be planted along the south side of the building, to avoid excessive heat during the summer, while allowing the sun through in the winter. Evergreen trees should be planted on the north and west sides of a building to block winter winds and provide shade. If buildings in a development are constructed to use solar energy, there should be deed restrictions to avoid future obstructions on adjacent lots.





Green site design can also seek to promote recharge of stormwater into the ground. This can be accomplished through rain gardens (which are landscaped depressions on a site), infiltration trenches (which are filled with stones above a geotextile), long and wide vegetated swales, and other methods. When stormwater is directed to long, relatively flat swales or vegetated filter strips, it not only promotes recharge, but also filters out eroded soil and certain other pollutants before they reach waterways.

To minimize environmental impact, there should be efforts to minimize the total land areas that are covered by surfaces that are "impervious" to water. This may involve clustering homes on portions of a site, which reduces the amount of pavement per home. Excessive widths of streets should also be avoided. Green site design also promotes use of pervious pavement. This can involve porous concrete or pervious asphalt. In both cases, some runoff can pass through the pavement. A stone base is used and then a geotextile to filter the runoff underground. Pervious pavement is particularly



An example of a green roof.

useful in portions of parking areas that are not used on a daily basis and in pedestrian areas. Less used parking areas can also be constructed with grass that is grown within a grid material.

Whenever practical, the turnaround of a cul-de-sac street should include a landscaped island. This island improves the appearance and reduces runoff.

Natural drainage flow paths should be maintained. Drainage from rooftops should be directed into vegetated areas on each lot, as opposed to be directed to large stormwater systems. Plantings of many open space areas should be encouraged to result in their eventual re-forestation.

Stormwater ponds ideally would be designed to hold water for several hours or more to allow pollutants to separate from runoff. However, if the ponds retain water for more than 24 hours, aeration is desirable to avoid breeding of mosquitos.

12.3.21 Signs

The sizes and heights of signs should be controlled to maintain the attractiveness of the County. In October of 2016, Sussex County Council passed a new sign ordinance to reflect current trends in the sign industry and sign technology. In addition, Sussex County has seen an increase in the use of billboards and digital/electronic signs, including those with animation.



The County recognizes that billboards should be limited in their sizes, their locations, and the minimum distances between billboards. In addition, electronically changing signs should be limited in how often they can change to avoid distractions to motorists.

Among the new regulations that pertain to billboards, the updated sign ordinance increased the

separation distance between billboards; increased the front-yard setbacks for billboards; specified a separation distance between billboards and on-premises signs; and specified limits of billboard height and area based on whether the billboard is located on a four lane highway or two-lane road. In addition, the new ordinance contains regulations for animation and message timing for digital/electronic signs.



An example of a tiny house.

12.3.22 Home Construction and Design Trends

A number of trends and movements in home construction have arisen across the country, some of which may find their way to Sussex County over the next decade. One of these is the tiny house movement, which is a social movement where people are choosing to downsize and simplify the space where they live. Tiny houses can range in size from 100 to 400 square feet and come in many shapes, sizes, and forms. Another is the construction of agrihoods which are master planned or residential communities built with a working farm as a focus (ULI, 2015). Sussex County encourages innovative building and site design provided it is compatible with surrounding land use and development.

12.4 . COMMUNITY DESIGN GOALS, OBJECTIVES, AND STRATEGIES

Below is a list of goals, objectives, and strategies for Sussex County's Community Design Element:

Goal 12.1: Promote design that is compatible with its surroundings.

Objective 12.1.1 Consider whether the design of new development fits the character of existing neighborhoods.

Strategy 12.1.1.1 Consider design standards for lighting such as downward screening for commercial and residential properties.

Strategy 12.1.1.2 Revisit height limits in the code for residential and commercial districts to determine if heights are accurate for such districts and uses, as well as determining if the method for measuring height should be revised.



Objective 12.1.2 Promote site design that minimizes adverse impacts.

Strategy 12.1.2.1 Encourage the locating of overhead power and communications utilities underground.

Strategy 12.1.2.2 Lead by example by exceeding standards in the construction of County public facilities, including parking lots, public buildings, landscaped areas, and related projects.

Objective 12.1.3 Incorporate usable open space in new developments.

Strategy 12.1.3.1 Revisit County Code to determine if modifications are needed to open space requirements to promote better access to and less fragmentation of open space.

Strategy 12.1.3.2 Consider creating an ordinance designed to protect established, mature, healthy trees during the construction of new developments to better preserve existing trees and green spaces.

Objective 12.1.4 Encourage development design that promotes increased access between developments and community facilities including parks, schools, and libraries.

Strategy 12.1.4.1 Encourage pedestrian connectivity between developments with sidewalks, paths, trails, and easements.

Strategy 12.1.4.2 Revisit County Code to determine if modifications are needed to encourage interconnectivity between residential developments.

Strategy 12.1.4.3 Develop connectivity standards for new developments in order to create multiple, alternate routes for automobiles and more route options for people on foot and on bicycles.

Goal 12.2: Maintain the quality and character of new development.

Objective 12.2.1 Promote flexibility in design and character of new developments.

Strategy 12.2.1.1 Revisit code to determine if modifications can be made to the review and approval process for new developments that in turn promote better design and character of the community.

Objective 12.2.2 Continue to offer flexibility in standards for large developments in exchange for a higher design quality.

Strategy 12.2.2.1 Continue to promote RPCs and cluster development options.

Strategy 12.2.2.2 Consider ways to encourage master planning of large-scale developments that allow flexibility in the design of a site's buildings, trails and



pedestrian paths, roads, and open space and encourage interconnectivity between parcels of land.

Objective 12.2.3 Encourage mixed-use where appropriate.

Strategy 12.2.3.1 Revisit code to consider a mixed-use zoning district.

Objective 12.2.4 Create opportunities for new types of housing when compatible with surrounding land use and development.

Strategy 12.2.4.1 Review zoning code to determine if modifications are needed to permit new styles of housing such as tiny house and agrihood developments construction to be developed in the code as they appear.

Objective 12.2.5 Consider agrihood-style development in Sussex County in order to foster local food production and connections to the traditional agricultural economy and lifestyle of the County.

Strategy 12.2.5.1 Review zoning code to determine if modifications are needed to permit agrihood-style development where appropriate in the County.

Objective 12.2.6 Revisit County Code to determine if modifications are needed to the Plan Submission Procedure.

Strategy 12.2.6.1 Reinforce the Preliminary Conference as an integral step in the Plan Submission Procedure.

Strategy 12.2.6.2 Consider strengthening the staff's recommendation and comment during the Plan Submission Procedure.

Goal 12.3: Improve the quality and character of existing development.

Objective 12.3.1 Encourage the revitalization of traditional areas of the County to create walkable and sustainable communities.

Strategy 12.3.1.1 Determine if there are incentives that can be established for developers that propose redevelopment.



Chapter 13. MOBILITY ELEMENT

<u>Mobility Vision</u>: Sussex County will be a leading example for Delaware in developing creative transportation solutions.

13.1 INTRODUCTION

Sussex County is the fastest-developing County in the State, due to its many natural and economic resources. This growth is putting increasing pressure on the County's transportation system. Responding to this pressure will require a combination of capacity improvements and the implementation of better approaches to land use and transportation coordination.

Previously, this Element was essentially drafted in its entirety by the Delaware Department of Transportation (DelDOT) and then incorporated directly into the Plan. For the 2018 plan, Sussex County is taking a more active role in not only planning transportation improvements in Sussex County, but setting goals to coordinate the prioritization of projects and help secure necessary funding. DelDOT has an approved "Consultation Process for Non-metropolitan Locally Elected and Appointed Officials," which describes the importance of Sussex County's Comprehensive Plan in setting long-range transportation priorities.

Sussex County is mainly a rural County that anticipates that its transportation needs within this planning period and well beyond will be met by motorized vehicular means. These transportation needs must be met by a combination of capacity, fiscal, collaborative and reliability solutions.

Sussex County is responding to these challenges by working with its partners on a new approach to transportation planning with a goal of supporting the implementation of required improvements in a timely fashion. Its focus is on a strategic and highly coordinated process between municipal, county and state partners, which will work to truly integrate land use and transportation at a regional level to address current and future issues.

Growth in the County has accelerated the decline the in level of service on major roadways and at major intersections throughout the County. This Plan is an effort for Sussex County to work with DelDOT to find new ways to solve transportation issues throughout the County. In addition, through this Plan the County will identify ways in which it can strive to take advantage of achievable opportunities for public transportation and other modes of travel throughout the current planning period.

Figure 13.1-1 provides an overview of the Sussex County Transportation System.



Figure 13.1-1: Overview of Sussex County Transportation System - DRAFT

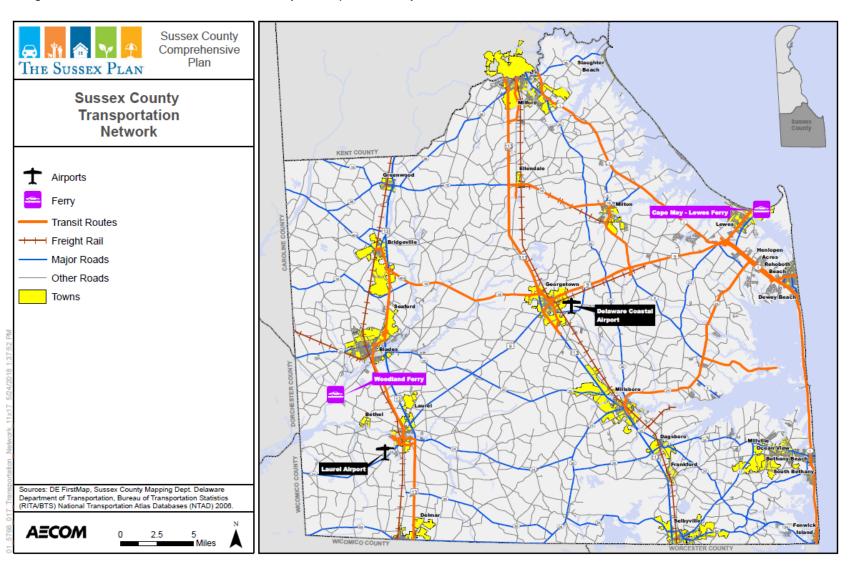
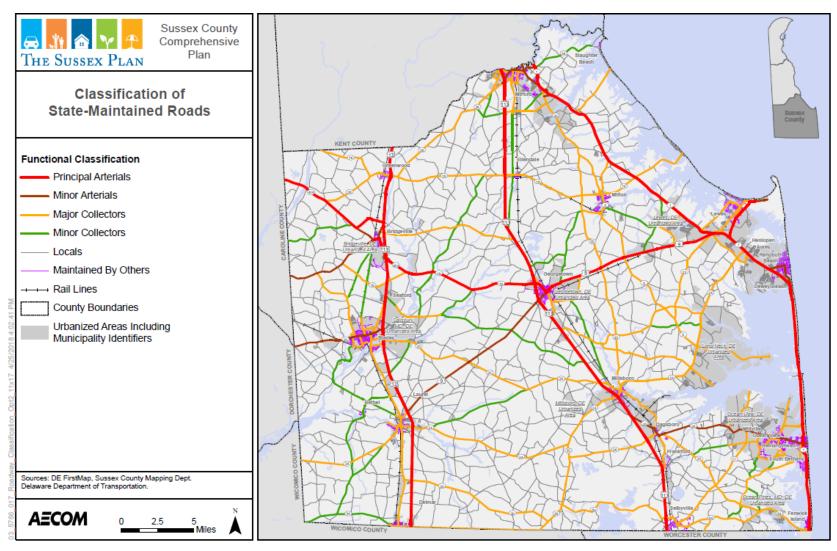




Figure 13.2-1: Classification of State-Maintained Roads - DRAFT





13.2 CURRENT SYSTEM AND ISSUES

13.2.1 Personal Vehicle Travel

Most personal travel in Sussex County is via motor vehicles on roads. All roads in Sussex County are either state-maintained, or municipality-maintained. There are no county-maintained roads in Sussex County. The majority of the roads are classified according to the federal Functional Classification System (See Figure 13.2-1). This system reflects how a particular road is used and determines how roads are designed and funded in the future.

The main roads in the County are principal arterials, which include US 13, US 113, SR 1, SR 404, portions of SR 18, and portions of US 9. Minor arterials and major collectors include SR 16, SR 24, SR 26, SR 20, portions of SR 18, and portions of US 9. These roads serve major activity centers, and they are the highest traffic volume corridors with typically long trip lengths. While they comprise only 10-percent of the total lane miles, they carry the largest share of traffic.

Figure 13.2-2 shows the traffic volumes, in terms of 2016 annual average daily traffic (AADT), on the roadway system. The highest volumes are mostly on the main north-south arterials; US 13, SR 1, and US 113. These AADT volumes are derived based on a combination of various counting and estimation methods such as actual year-round permanent counts at some locations, representative short-period counts (one week) at some other locations and estimation of traffic growth at certain other locations based on annual growth factors. They provide a planning level system-wide overview of average conditions and are essentially useful to provide a bird's eye view on overall rate of change/growth for a comprehensive planning exercise. The following Table 13.2-1 shows 2016 AADT along these key corridors.

Table 13.2-1 2016 Annual Average Daily Traffic – Key Sussex County Corridors			
Highway or Roadway	Location	2004-2006 AADT	2016 AADT
SR 1	Near Rehoboth Beach	60,000	65,500
US 13	Near Seaford	30,000	37,500
US 113	Near Millsboro	24,000	30,500
SR 404	Near Bridgeville	9,000*	11,500
US 9	Georgetown	16,000	20,000

Source: 2008 Sussex County Mobility Element and DelDOT Traffic Summary 2016

In recent years, increasing traffic volumes have led to increasing congestion, especially in the eastern part of the County. The highest growth in traffic has been on US 113 and SR 1. The following Congested Areas have been identified based on Level of Service (LOS) using 2016 AADT (See Figure 13.2-3):

^{*}Note: The 2008 Mobility Element reported an AADT of 26,000 for SR 404 near Bridgeville, which was actually for the US 13 segment near Bridgeville. The accurate AADT for SR 404 near Bridgeville was 9,000.



- SR 1 in the Milton, Lewes and Rehoboth Beach area experiences significant congestion, which worsens during summer weekends
- The SR 26 and SR 20/54 corridors near the coast current capacities are limited to one lane in each direction
- The Georgetown and Millsboro areas along US 113 experience high volumes of both resort and commuter traffic year-round
- The Milford area, including portions of SR 1 and US 113
- The Bridgeville area along US 13
- US 9 between Georgetown and Lewes
- SR 24 near Millsboro, Long Neck, Love Creek and Rehoboth Beach

It should be noted that LOS based on AADT volumes is for a system-wide planning level analysis and it does not represent location specific (intersection level) peak hour operational LOS performance.

Figure 13.2-4 shows projected congested corridors along the County roadway network based on the 2045 population trend whereas Figure 13.2-5 shows projected congested corridors based on a 2045 scenario that assumes 15% additional population compared to the current trend. In both these cases it can be seen that most of the key corridors in Sussex County will experience significant congestion issues, even under the average planning level condition represented by AADT projections, highlighting the critical need to provide both physical and operational capacity improvements for these roadways that also serve as primary evacuation routes.



Figure 13.2-2: Sussex County Traffic Volumes (2016) - DRAFT

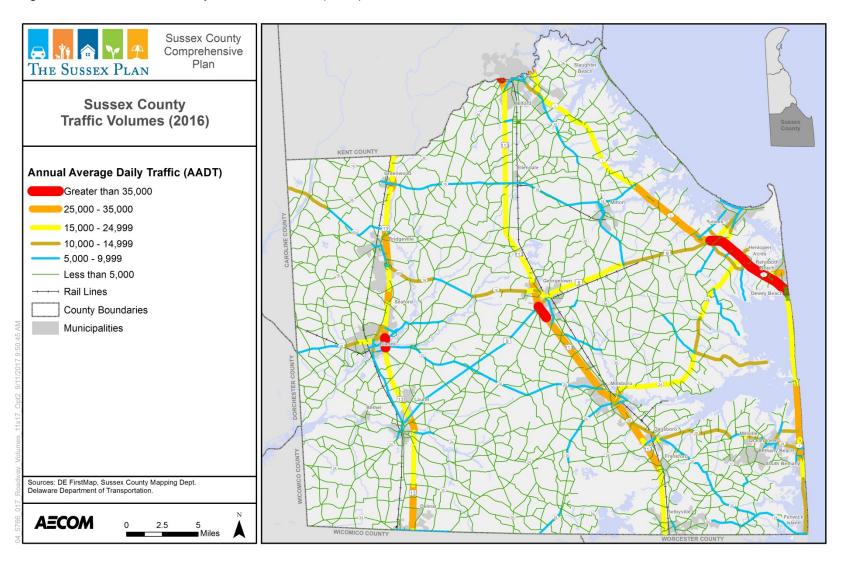




Figure 13.2-3: Existing Traffic Congestion Areas - DRAFT

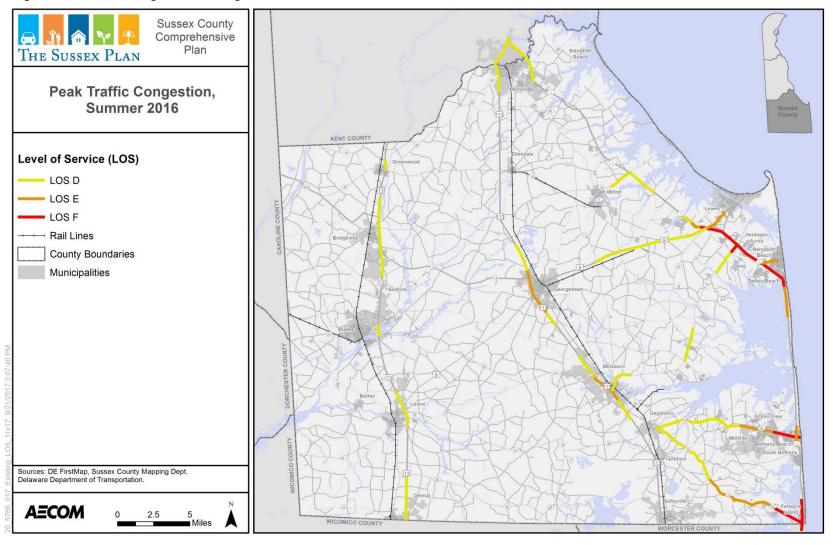




Figure 13.2-4: Projected Future Congestion Areas, 2045 (Population Trend) - DRAFT

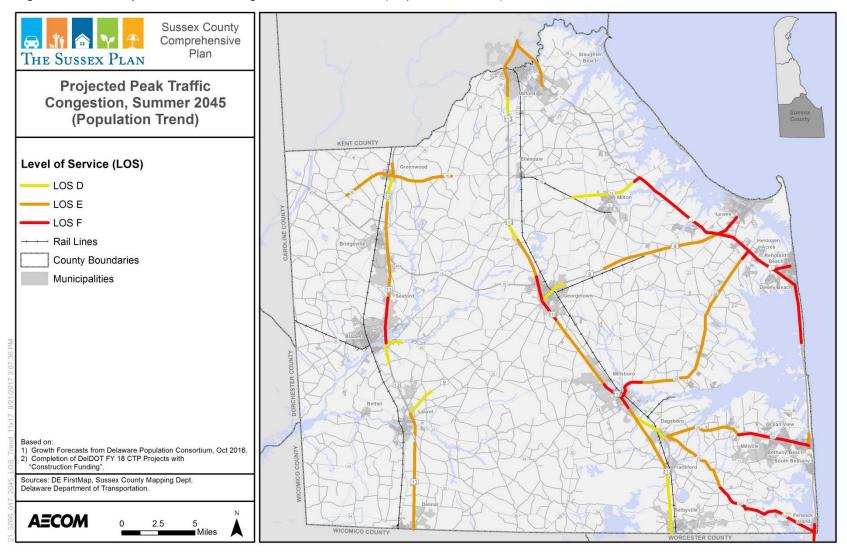
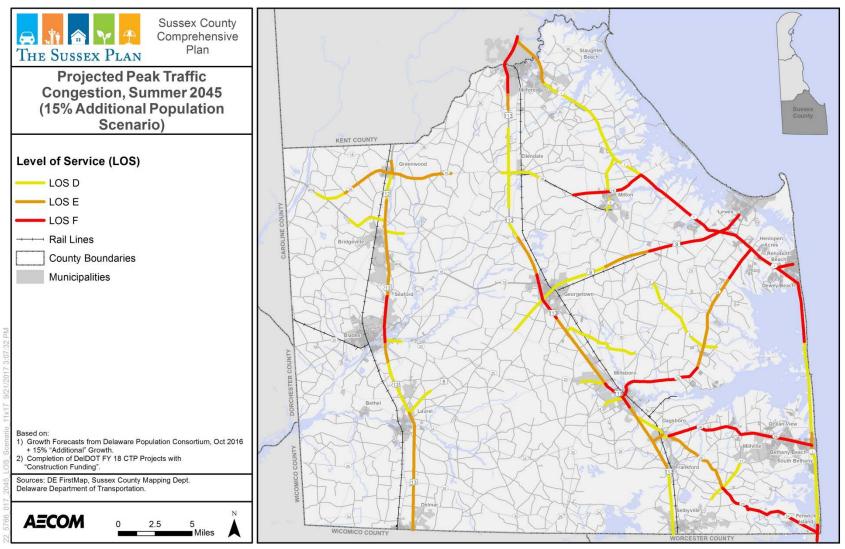




Figure 13.2-5: Projected Future Congestion Areas, 2045 (15% Additional Population Scenario) - DRAFT





13.2.2 Freight

The County's goods movement (freight) network is an integral component of the transportation network as well as the economy. The main element of the freight network is the roadway system, which carries trucks (motor freight). In addition, the County has several rail freight and water freight facilities (see Figure 13.2-6).

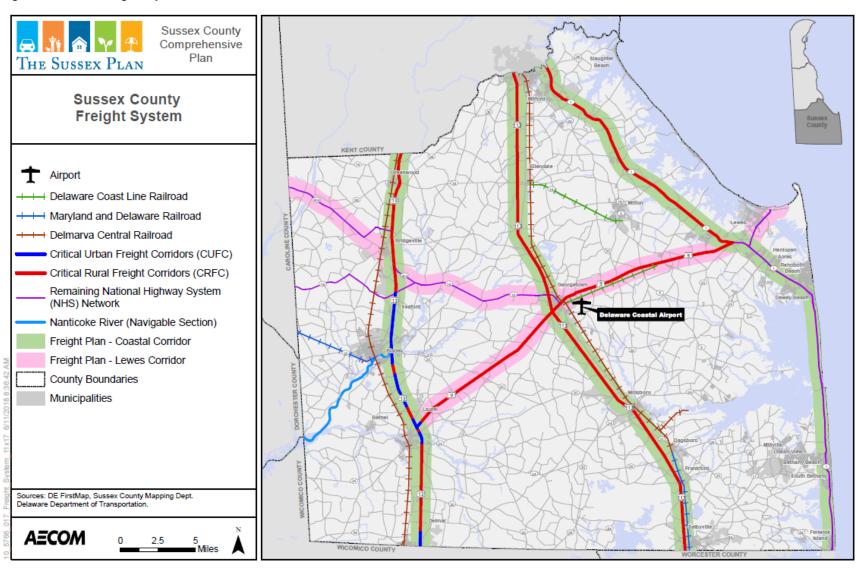
In recent years, comprehensive freight planning for the Delmarva Peninsula has occurred. These efforts provide a broader regional context within which to assess issues and identify potential improvement opportunities for the goods movement system within Sussex County. The 2015 Delmarva Freight Plan provided information on the current system and commodity flows; key trends, needs, and issues; future scenarios; and candidate projects and studies.

- Motor Freight The bulk of freight in the County moves by truck. In general, the main roads in the County are also its main truck routes. DelDOT has designated main freight corridors in the County, including US 13, US 113, SR 1, US 9, and SR 404. In addition, under the framework on the new National Highway Freight Network (NHFN), DelDOT has designated critical urban and rural freight corridors. In Sussex County, several portions of US 13 are critical urban freight corridors, while the rest of US 13, all of US 113, most of US 9, and a portion of SR 1 are designated as critical rural freight corridors. (See Figure 13.2-8) Economists predict that trucks will continue to be the predominant mode of goods movement, with its share projected to increase, due to various factors including increases in e-commerce.
- Rail Freight The County has several rail freight lines (See Figure 13.2-6). Most rail shipments are inbound, carrying grain and other agribusiness imports.
- Waterborne Commerce The Nanticoke River is an important freight route between Seaford and the Chesapeake Bay. In 2016, about 360 barges carrying nearly one million tons of bulk materials (including grain, gravel, and fuel) moved up and down the river. One barge has the capacity of about 150 trucks (See Figure 13.2-6).

The same issues (particularly congestion and infrastructure conditions) that confront personal vehicle travel also affect motor freight. Businesses and truckers need improved roadway conditions in order to maintain the effectiveness and efficiency of motor freight. At the same time, there is a need to consider how to mitigate the impacts of truck traffic upon other transportation system users and the communities through which they travel. One means of reducing truck impacts is to shift more freight to rail or water, although opportunities to do so may be limited.



Figure 13.2-6 Freight System - DRAFT





13.2.3 Travel Options

• Public Transit - The primary public transit provider in the County is the Delaware Transit Corporation (DTC), which operates DART First State service. From September 2018, DART will have six year-round fixed bus routes in Sussex County (through conversion of some seasonal routes to year round service and by adding a new fixed route) and three flex bus routes. DART currently has one seasonal and one year-round intercounty route. DART will add a new intercounty year-round route providing express weekday service between Dover and Lewes from May 2018. DART will continue to provide seasonal summer bus service along the current two routes that are not getting converted to year-round service. This system includes two park-and-ride and three park-and-pool facilities (see Figure 13.2-7).

DART also operates on-demand, door-to-door paratransit services for senior citizens and persons with disabilities. Previous data has shown that paratransit trips within Sussex County account for more than 50 percent of all daily transit trips. Numerous social service agencies (e.g., Department of Health and Social Services and Division of Developmental Disabilities Services) also provide human services transportation.

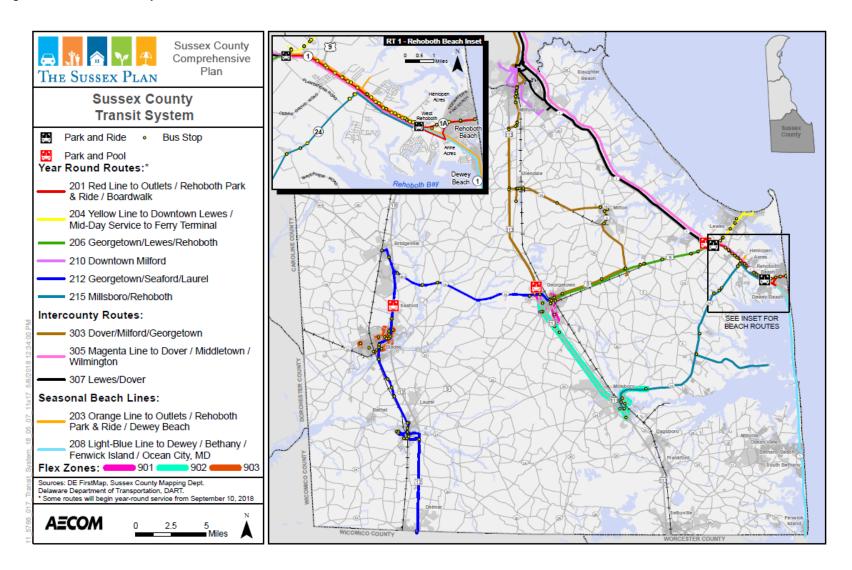
The primary challenge for travel options is to increase the availability and usage of alternatives to personal vehicle travel. For public transit in Sussex County, the main challenge is to address the trend of declining ridership. General strategies to address this challenge may include increasing the level of public information about transit and improving coordination among service providers, match demand with supply, address gaps in service and consider transit in planning for new development, which ideally will incorporate transit-friendly design elements.

Non-motorized - The main non-motorized travel options are walking and bicycling. The
primary facilities for walking are sidewalks, and most sidewalks in the County are
concentrated in its municipalities. Shared-use pathways and trails also are available for
pedestrians, as well as bicyclists. Chapter 7, Recreation and Open Space provides
information on existing and planned trails and pathways in Sussex County.

Bicyclists also may travel along roadways, some of which have accommodations such as shoulders and wide outside lanes. DelDOT has prepared mapping that classifies all roads by their suitability for bicyclists.



Figure 13.2-7 Transit System - DRAFT





For walking and bicycling, the challenges are similar to those for transit – increasing the extent of facilities in order to attract greater usage. Providing appropriate safety measures, particularly relative to vehicular traffic, also is essential. It is important to continue to include pedestrian and bicycle planning into land use plans at all levels and to better incorporate pedestrian and bicycle-friendly design standards into the design of residential and commercial developments.

 Aviation - The County has two public-use airports, the Delaware Coastal Airport and Laurel Airport (see Figure 13.2-8). Sussex County owns Delaware Coastal Airport, a general aviation airport, which handles a mix of small aircraft and corporate jets. Total annual operations average about 34,000 take-offs and landings. The airport is an important travel option and economic resource for the County.

Laurel Airport is a privately-owned airport, which is mostly used for agricultural spraying and skydiving. The airport is a localized travel alternative and an important tourist attraction for the Town of Laurel.

One important planning challenge for aviation facilities is how to leverage proposed investment in upgraded facilities into additional economic development. It is essential for land use plans and zoning to accommodate aviation uses. An additional important element is to provide adequate ground-side connections, such as roads and parking, transit service, and rail freight. At the same time, proposed expansion projects must consider environmental and community impacts, particularly increased noise levels.

 Water - Two water transportation services in the County are the Cape May – Lewes Ferry and the Woodland Ferry (See Figure 13.2-8). The Cape May – Lewes Ferry, operated by the Delaware River and Bay Authority (DRBA), has been running across the Delaware Bay between Cape May, NJ and Lewes, DE since 1964.

The Woodland Ferry, operated by DelDOT, provides free year-round service for vehicles and pedestrians across the Nanticoke River west of Seaford and Laurel.

 Delaware Byways - The Delaware Byways system (formerly Delaware Scenic and Historic Highways) consists of roads that travel through areas of scenic and historic interest. The intent of this system is to promote tourism and raise awareness of the communities along these routes. Currently there are three byways located in Sussex County (see Figure 13.2-9):



Figure 13.2-8 Airports, Ferries, and Navigable Waterways - DRAFT

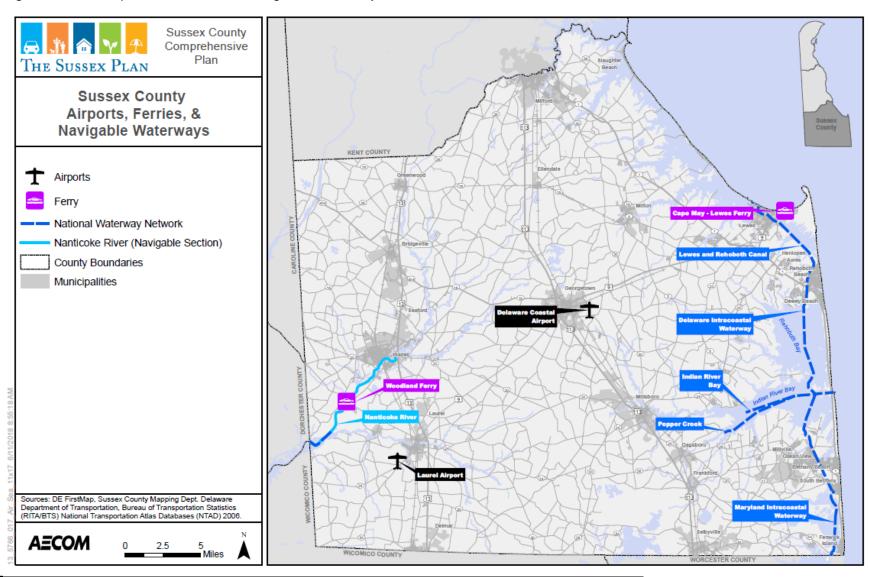
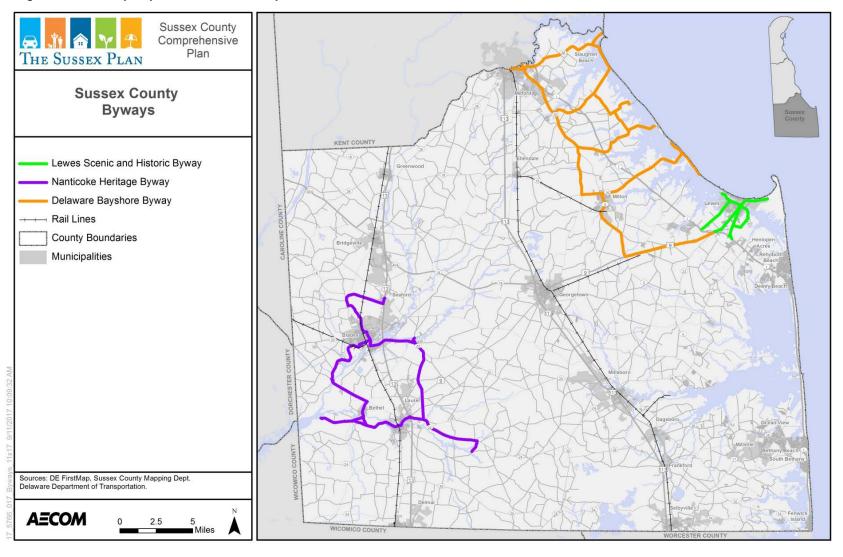




Figure 13.2-9 Byways in Sussex County - **DRAFT**





- The Bayshore Byway (formerly Route 9 Coastal Heritage Byway) provides access from outside Dover to a connection with the Historic Lewes Byway in Sussex County. This byway comprises a small network of roads generally located between the SR 1 corridor and the Delaware Bay. The byway provides access to natural and historical sites, particularly the Prime Hook National Wildlife Refuge, along the bay.
- The Historic Lewes Byway provides access to many natural and historical sites, including Cape Henlopen State Park, the Cape May-Lewes Ferry, the Zwaanendael Museum, the Lewes Historic District, Lightship Overfalls, the de Vries Monument, Canary Creek, and the Kings Highway Historic District.
- The Nanticoke Heritage Byway (formerly Western Sussex Byway) runs along several roads in western Sussex County, beginning at US 13 north of Seaford and passing through Seaford, Bethel, and Laurel before ending at Trap Pond State Park.

Byways are managed by volunteer committees with support from DelDOT. The byways volunteers are responsible for sponsoring and developing a Corridor Management Plan (CMP) for their respective byway. This CMP identifies the cultural and historic resources of the byway and recommends context sensitive design solutions to maintain the local character. Sussex County and DelDOT should work together to monitor as DelDOT implements the adopted CMPs in order to meet the mobility needs of the byways roads, while balancing the preservation of byways resources.

More information about Delaware Byways is available of DelDOT's website in the "Delaware Byways Program Guide," the "Context Sensitive Solutions for Delaware Byways" report, and the respective CMPs for each byway.

13.2.4 Safety and Resiliency

The safety of travelers should always be a primary goal when planning transportation improvements in Sussex County. Safety depends on many interrelated factors, such as road design, traffic volumes, speed limits, and infrastructure age. The Delaware Department of Transportation and Sussex County regularly work together to identify safety hazards and find appropriate solutions.

One significant category of hazards relates to climate and severe weather. Some of the coastal areas of Sussex County are already prone to flooding issues, and there is a concern that possible climate change may further impact the transportation system in these areas. Anticipating potential issues from a possible climate change may make the system more resilient in the future.

In addition, the threat of flooding and coastal storm surge emphasizes the need for planning for evacuation of the coastal area. Considerable planning has resulted in evacuation plans that aim to facilitate safe and efficient evacuation. Figure 13.2-10 shows the current map of evacuation



routes. Most of these evacuation routes are now projected to be highly congested corridors in the future as shown earlier in this section in Figures 13.2-4 and 13.2-5.

The *Climate Framework for Delaware* (2014) proposed adaptation responses for DelDOT, focusing on improving asset management practices by incorporating climate resiliency into design, materials, and siting guidelines for transportation infrastructure. Coordination with other state agencies is also identified as key to addressing emergency management and land use planning issues.

The Sussex Plan recognizes that much work needs to be done to update evacuation route planning and address capacity improvements where needed, in order to bring evacuation routes up to an acceptable level to minimize evacuation risks. Additionally, there is a need to review existing coordination and other agreements with the State of Maryland that provide for the evacuation of Ocean City and other coastal portions Maryland by using Delaware roadways.

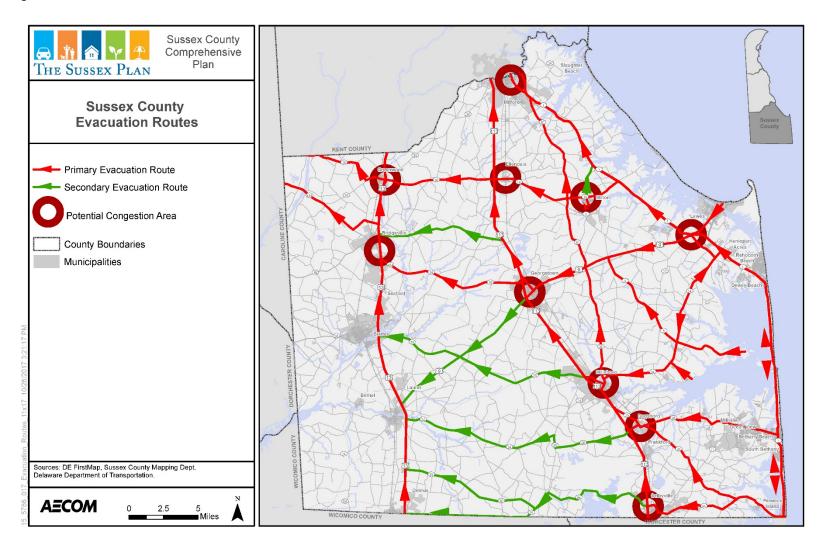
With the prevalent use of GPS technology in recent years, motorists are sometimes directed to use secondary roads. As such, in addition to the roadway capacity expansion needs for primary corridors, Sussex County also recognizes the need for assessing roadway capacity improvements on secondary roads, although these roadways are not as high priority for funding.

Interconnectivity is also an important aspect to enhance mobility and evacuation efficiency. Interconnectivity between similar land uses aligns perfectly with the principles of Residential Planned Communities described in the earlier Chapter 12 on Community Design. Appropriate provision of connector roads for local trips can help to reduce congestion on arterial roads, reduce travel distances and improve travel time for local trips, introduce travel route redundancy in local street network and reduce emergency services response time. It can also foster opportunities for community interaction by eliminating barriers between developments and provide better connectivity for non-motorized travel options like walking and bicycling.

There are a few perceived disadvantages related to increased interconnectivity, such as increasing through traffic on residential streets. However, there are ways to plan and design connector roads better to avoid or minimize through traffic impacts on residential streets. The focus needs to shift on encouraging subdivision design that can provide a balanced mix of residential seclusion and local connectivity while maintaining commercial viability of the subdivision.



Figure 13.2-10 Evacuation Routes - DRAFT





13.2.5 Overview of Coordination Issues

Different entities responsible for land use and transportation decisions Coordination between land use and transportation policies, decision-making and
development has always been a challenge. Linking land use and transportation is
challenging in Delaware because different entities are responsible for transportation
improvements and land use approvals.

In Sussex County, DelDOT is responsible for nearly 90% of the roadway network across all roadway functional classifications and has statutory responsibility to plan, construct and maintain the state highway system and to approve all access to it. Sussex County Planning and Zoning Commission and in turn, Sussex County Council are responsible for all land use decisions within the unincorporated areas of the County, while 25 separate municipalities are responsible for land use decisions within incorporated municipal boundaries.

Less emphasis on regional and integrated transportation-land use planning - The
Sussex County Council and 25 individual municipalities review, approve or deny
development and/or redevelopment proposals and other zoning changes to implement
best possible land use policies and strategies. These policies and strategies reflect local
goals as well as objectives and they are mostly aligned with the development vision for
the entire County. DelDOT's transportation system preservation, maintenance and
enhancement focus is on addressing local and regional access/ traffic flow issues and
ensuring safety enhancements that are identified based on anticipated growth strategies
as per the state land use policies in the statewide LRTP that may not align completely with
the local policies.

As such, while DelDOT, Sussex County and municipalities are all focused on implementing best practices, there can be a disconnect between land use and transportation planning and a regional approach.

• Lack of public support for improvement projects – While public involvement is an integral element of transportation planning and project delivery, securing public buy-in is a challenging task. Many times, there are conflicting interests and opinions about the objectives of specific improvement projects that result in lack of public support for them. Public involvement processes should be improved to prevent problems with future projects. Building an early consensus on improvement concepts through public participatory decision-making has been found to be very effective. This approach not only generates better buy-in but also helps creating relationships and building a long-term trust among all partners. While it is unlikely to be able to meet every stakeholder expectation with planning and project delivery, the projects that serve greater good must move forward in the face of opposition to improve mobility in Sussex County.



Unavailability of a coordinated transit service forum – The Sussex County Mobility
Consortium, a former organization of participating non-profit human services
transportation providers in Sussex County, used to coordinate efforts among participating
providers and share coordinated supplemental transit service information for end users in
the Sussex County. Since 2015, the Sussex County Mobility Consortium is no longer
operational. The Consortium or a similar platform will be helpful to coordinate transit
service options in the county.

13.2.6 Overview of Other Significant Issues

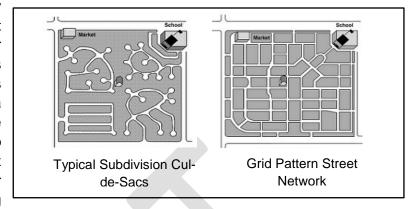
Various large-scale forces and trends influence transportation demand and travel patterns. These forces and trends relate to land use, demographics, economics, and the environment. This section describes several forces and trends and the challenges that they present to long-range transportation planning in Sussex County.

- Sprawling Development Today, limited Right-of-Way (ROW) expansion possibilities and budget constraints make physical capacity expansion challenging. If growth is managed and timed with transportation improvements, Delaware can use its trust fund dollars more efficiently. As such, perhaps the most important force that affects transportation demand and travel patterns is land use and development. Dispersed lowdensity development, or sprawl, has resulted in an auto-centric transportation system with higher rates of driving and vehicle ownership. This reduces the ability to implement costeffective and specific roadway improvements focused in the areas where growth is likely to occur and reduces potential for alternative modes of travel. The majority of low-density development in Sussex County has been piecemeal and uncoordinated with regional transportation infrastructure. Targeted density increases in appropriate growth areas actually helps streamline roadway improvements and results in reduced congestion. On the other hand, sprawl causes the transportation system to be in reactive mode, instead of proactive mode. It has also stretched the state's Transportation Trust Fund dollars as projects respond to development County-wide. As a result, a few arterial roads must accommodate heavy traffic and are faced with access and mobility challenges due to growing congestion.
- Disconnected Land Uses Related to sprawl is the issue of disconnected land uses.
 While low-density development has been the most widely recognized indicator of sprawl, lack of street interconnectivity and segregation of land uses also contribute to sprawl and



its impacts on access and mobility. The current patterns of land use and development,

and the available roadway system, typically do not connect similar uses nor do they connect residents to local services. This separation of uses puts a higher stress on transportation system. To alleviate this issue, Sussex County will have a greater focus providing on



interconnectivity in all types of development and redevelopment.

- Seasonal Traffic The presence of the County's beach and resort communities attract
 significant visitor traffic during the summer months and the "shoulder-season" in the spring
 and fall. In addition, a significant portion of through or pass-by traffic (with neither origin
 nor destination in the County) is also experienced on key transportation corridors such as
 SR 1. This seasonal visitor traffic as well as increased regional through traffic puts stress
 on arterial roadways and makes local travel difficult. These additional travelers on
 County's roadways must be incorportaed in future planning while addressing congestion
 issues.
- Demographic Trends Various demographic characteristics and trends affect transportation demand. These factors include the overall level of population and employment, as well as the population age distribution. Recent projections show that inmigration to the County will continue and grow for a number of years, leading to increased population and increased travel demand. For more information about these demographic trends, see Chapter 2 – Population and Demographics.
- Climate Change One other large-scale external force is climate change. Considerable
 research has documented future temperature extremes, heavy precipitation, storm surge,
 and sea level rise, which may affect the condition and reliability of the transportation
 system. This could put some of the County's infrastructure at risk. Ongoing planning is
 necessary to ensure the adequacy of evacuation routes to move people safely from the
 coast and other flood-prone areas.
- Project Delivery Timeline and Funding Availability Limited availability of required funding and federally mandated process requirements sometimes extend the project delivery timeline for certain projects.

Summary of Current System and Issues



Reviewing and understanding the current system and the challenges described in this section provides us with a means of determining a path forward by identifying potential solutions to meet these challenges. Some improvement projects have already been identified in the current Capital Transportation Program (CTP) as discussed in the next section along with visions for the key corridors in the County.

13.3 CAPACITY PROJECTS AND CORRIDOR VISIONS

13.3.1 Capital Transportation Program (CTP)

Every year Delaware updates its Capital Transportation Program (CTP), which specifies how Transportation Trust Fund dollars will be spent over a rolling 6-year period. This program contains transportation projects that are funded through a combination of state and federal transportation funds. The CTP is categorized by type, as shown in Table 13.3-1.

Table 13.3-1 Types of CTP Projects			
Category	Description	Types of Projects	
State of Good Repair (SOGR)	System preservation projects	Paving and rehabilitation, bridge maintenance, municipal street aid, bus stop improvements, etc.	
Dedicated (DED)	Dedicated federal funding for specific purposes	Byways, MPO funding, recreational trails, transportation alternatives, state planning and research, etc.	
Management (MGT)	Small improvements for management and operation of system	Traffic calming, traffic signal improvements, bike/ped improvements, transit vehicles, etc.	
Required (REQ)	Projects mandated by regulatory or legislative action	Pedestrian ADA accessibility, truck weight enforcement, environmental improvements, etc.	
Standalone (Prioritized)	All other projects	Any other capital improvement project that is prioritized in the CTP	

Potential improvement projects are evaluated based on key factors, which include project readiness, funding eligibility, and technical scores. DelDOT must anticipate potential project schedules (readiness), determine potential funding eligibility, and review all projects to assign technical scores. For more detailed information, please reference the document titled, "Capital Transportation Program Development Process," which can be found on DelDOT's website.

DelDOT's current CTP for fiscal years 2019 to 2024 contains many roadway improvement projects, including several projects to construct grade-separated intersections (see Table 13.3-2). These projects would increase roadway capacity and improve safety. One major new road is



the North Millsboro Bypass, which was identified by the US 113 North / South Study. Annual updates to this CTP are available on DelDOT's website.

			Construction	In
Project			Start Year	Previous
Location	Purpose	Justification	(Fiscal Year)	Plan?
US 113 & SR	Build the North Millsboro	Reduce congestion in Millsboro	2023	Yes
24	Bypass road	and increase traffic capacity;		
		Identified in the 113		
22.1.2.2		North/South Study	2024	
SR 1 & Cave	Construct a grade-	Improve safety and increase	2024	No
Neck Road	separated intersection	traffic capacity		
SR 1 & Minos	Construct a grade-	Improve safety and increase	2023	No
Conaway Road	separated intersection	traffic capacity		
US 113 & US 9	Construct a grade-	Improve safety and increase	After 2024	No
	separated intersection	traffic capacity		
US 113 & SR	Construct a grade-	Improve safety and increase	After 2024	Yes
16	separated intersection	traffic capacity		
US 113 & SR	Construct a grade-	Improve safety and increase	2023	Yes
18/SR 404	separated intersection	traffic capacity		
US 9, Kings	Widen the existing road	Improve safety and increase	After 2024	No
Highway, from	and provide multi-modal	roadway capacity		
Dartmouth Dr.	facilities			
to Freeman				
Highway				
SR 24 from	Widen the existing road	Increase traffic capacity on the	2017	Yes
Mulberry Knoll	and provide multi-modal	corridor and improve storm		
Rd to SR 1	facilities	water management		
SR 24 from	Safety improvements	Improve safety and increase	2020	Yes
Love Creek to		traffic capacity		
Mulberry Knoll				
Park Ave at S.	Realign Park Ave	Improve safety, improve local	2022	Yes
Bedford Street		traffic circulation, and		
		accommodate truck traffic		
Plantation	Operational and safety	Increase operational capacity	After 2024	No
Road, from SR	improvements	by providing turn lanes, bypass		
24 to US 9		lanes and safety improvements		
Discount Land	Roadway widening and	Increase multimodal capacity	After 2024	No
Road, US 13A	multimodal	and connect residential areas		
to US 13	accommodations	to retail/commercial areas		
Old Orchard	Realign Old Orchard Rd	Improve safety, consolidate	2020	No
Road at	to meet Westcoats	intersections, and reduce		
Westcoats	Corner Rd	congestion		
Corner Road				



Table 13.3-2 FY19-FY24 CTP Projects				
Project Location	Purpose	Justification	Construction Start Year (Fiscal Year)	In Previous Plan?
US 9, Market Street, Sand Hill Road/Airport Road Intersection Improvements	Intersection improvements	Improve safety and increase operational capacity	After 2024	No
SR 24 at Mount Joy Road and Bay Farm Road	Intersection improvements	Improve safety and increase operational capacity	2019	No
SR 24 at SR5/SR23	Intersection improvements	Improve safety and increase operational capacity	2020	No
SR 24 at Camp Arrow Head Road and Robinsonville Road intersections	Intersection improvements	Improve safety and increase operational capacity	2021	No
US 9 & SR 5	Intersection improvements	Improvements to address identified safety and operational issues and accommodate heavy vehicles	2018	No

13.3.2 Federal Programs and Funding Eligibility

The majority of CTP capital projects are funded through federal programs with state matching funds. Federal surface transportation bills provide the authorization for these programs. The current federal bill is known as the Fixing America's Surface Transportation Act (FAST Act) and contains several funding programs and grants. Table 13.3-3 shows a selection of FAST Act programs that are the most relevant for funding capacity projects in Sussex County.

Table 13.3-3 Selection of FAST Act Programs		
Code	Program Name	Description
NHPP	National Highway	For projects on the National Highway System (principal
	Performance Program	arterials or higher functional classification)
CTDC	Surface Transportation Block	For projects with a functional classification of major
STBG Grant		collector or higher (minor collector in urban areas)
HSIP	Highway Safety Improvement	For projects identified in a state's Strategic Highway
	Program	Safety Program



	Table 13.3-3 Selection of FAST Act Programs		
Code	Program Name	Description	
CMAQ	Congestion Mitigation and Air Quality	For projects that reduce air pollution to achieve attainment of National Ambient Air Quality Standards (NAAQS)	

Any projects funded through these programs must meet federal eligibility criteria. DelDOT must ensure that potential projects meet specific funding categories, which can be flexible or restrictive. The two largest programs are the National Highway Performance Program (NHPP) and the Surface Transportation Block Grant (STBG) programs. Together, they provide the majority of the federal funds in the CTP.

The NHPP can only be used for roads on the National Highway System (NHS). In Sussex County, the NHS consists of only the principal arterials. STBG funds can only be used for major collectors or higher classification roads in rural areas and minor collectors or higher classification roads in urban areas. The majority of Sussex County's collector roads are major collectors. For more information, reference Figure 13.2-1. The Federal Highway Administration (FHWA) provides guidance on the characteristics of major and minor collectors (See Figure 13.3-1).

The Federal Highway Administration (FHWA) recommends that state departments of transportation maintain their functional classification systems through ongoing coordination with local government partners. Updates to the system may be needed, due to changes in traffic characteristics or land use.

Sussex County can request a review of a road classification. Currently, there is no formal process to do this. DelDOT and the County would perform an analysis of the proposed change in relation to its anticipated effect on the entire system. The FHWA Delmar Division Office must eventually approve any changes to Delaware's functional classification system.

Any projects not funded through a federal program are funded with state capital funds. DelDOT is committed to meeting the transportation needs of Sussex County and will coordinate with its partners to prioritize and fund projects.

Figure 13.3-1 Characteristics of Major and Minor Collectors



MAJOR COLLECTORS				
Urban	Rural			
Serve both land access and traffic circulation in higher density residential, and commercial/industrial areas Penetrate residential neighborhoods, often for significant distances Distribute and channel trips between Local Roads and Arterials, usually over a distance of greater than three-quarters of a mile Operating characteristics include higher speeds and more signalized intersections	 Provide service to any county seat not on an Arterial route, to the larger towns not directly served by the higher systems and to other traffic generators of equivalent intra-county importance such as consolidated schools, shipping points, county parks and important mining and agricultural areas Link these places with nearby larger towns and cities or with Arterial routes Serve the most important intra-county travel corridors 			
MINOR CO	OLLECTORS			
Urban	Rural			
Serve both land access and traffic circulation in lower density residential and commercial/industrial areas Penetrate residential neighborhoods, often only for a short distance Distribute and channel trips between Local Roads and Arterials, usually over a distance of less than three-quarters of a mile Operating characteristics include lower speeds and fewer signalized intersections	 Be spaced at intervals, consistent with population density, to collect traffic from Local Roads and bring all developed areas within reasonable distance of a Collector Provide service to smaller communities not served by a higher class facility Link locally important traffic generators with their rural hinterlands 			

Source: "Highway Functional Classification Concepts, Criteria and Procedures," 2013 Edition

13.3.3 Data-Driven Decisions

Delaware state code requires a formula-based process for determining the priorities of CTP projects (Title 29: Chapter 84 - Subsection 8419). The purpose of this requirement is to make all transportation spending decisions objective, data-driven, and transparent. DelDOT works with its partners to develop transportation improvement projects based on needs identified by the Metropolitan Planning Organizations (MPOs) and local government agencies.

MPOs adopt long-range transportation plans and local governments develop and adopt comprehensive plans. These plans are very important to DelDOT because they highlight the transportation needs of a particular area and identify community priorities. These plans are highlevel indicators of where State and County officials should focus their efforts to plan future improvements. This mobility chapter serves this important function to the State.

Using these long-range priorities, DelDOT and its partners develop an updated CTP each year. Annually, Sussex County delivers a CTP Request document to DelDOT that specifies county transportation priorities. The County and DelDOT should improve this process to make the communication of priorities more frequent and transparent and to make sure projects are tracked. The Council on Transportation (COT) reviews the draft CTP to ensure that it meets the objectives of local governments and the MPOs.

Any standalone CTP project must be ranked by a technical score that is assigned through the State's prioritization process. Stakeholder input and technical data is used to evaluate the project under seven criteria. These seven criteria and some supporting elements are described in Table



13.3-4. For more detailed information, please refer to the document titled, "DelDOT Project Prioritization Criteria," which can be found on DelDOT's website.

Table 13.3-4	Project Prioritization Criteria			
Criterion	Description	Input Data		
Safety	The extent to which a project addresses safety issues	A critical ratio value is calculated using crash data; strategies in the State's Strategic Highway Safety Plan		
System Operating Effectiveness	The extent to which a project meets operating objectives	Local comprehensive plans; State Strategies; existing intersection Level of Service (LOS) – calculated on a project basis at the nearest intersection; corridor congestion data		
Multi-Modal Mobility/ Flexibility / Access	The extent to which a project addresses transportation choices and connectivity	A qualitative scoring process based on the anticipated multi-modal impact; stakeholder input; demographic and transportation system data		
Revenue Generation/ Economic Development/ Jobs & Commerce	The extent to which a project could generate revenue or support economic development	Location of project within a Transportation Improvement District (TID); cost-sharing percentage from active development; location along a designated freight corridor		
Impact on the Public/ Social Disruption/ Economic Justice	The extent to which a project supports community enhancement	demographic and transportation system data; stakeholder input		
Environmental Impact/ Stewardship	The extent to which a project mitigates damage to the environment	demographic and transportation system data; stakeholder input; coordination with the Department of Natural Resources and Environmental Control (DNREC)		
System Preservation	The extent to which a project contributes to system preservation	demographic and transportation system data; stakeholder input; system preservation needs data		

DelDOT uses the ranked technical scores to apply the most restrictive federal funding first. Then, more flexible federal funding is applied to the same priority list. State match funds are then programmed to maximize Delaware's use of available federal funding. Any remaining state funds are then available for additional projects.

The most important thing to understand about the data that is used to assign technical scores is that DelDOT uses a combination of high-level and site-specific data. The AADT and LOS maps in this chapter provide a high-level view of average traffic conditions (both existing and future). These maps identify the most congested corridors but don't highlight local issues. If a particular road or intersection doesn't appear on these maps, it doesn't mean it will be ineligible for any future improvements.



Overall, the maps in this chapter can help Sussex County and its partners determine where to focus future master planning efforts, develop TIDs, or conduct in-depth traffic analyses. AADT and LOS maps are just one piece of the data puzzle that goes into making decisions about projects.

13.3.4 Additional Capacity Improvement Projects

In addition to projects currently programmed in the CTP, some capacity improvement needs have been identified by Sussex County which involve providing local connector roads or otherwise improving capacity, traffic safety, and evacuation safety (see Table 13.3-5). These potential projects have been identified through a variety of sources and should be considered for future versions of DelDOT's CTP. One of these projects includes necessary improvements to the Five Points intersection. This list of potential projects can be updated regularly based on mobility needs identified through collaborative partnerships between municipalities, the county, and the state.

Table 13.3-5 Additional Capacity Improvement Projects				
Project Location	Purpose	Justification	Source(s) of Proposal	In Previous Plan?
Five Points Intersection in	Construct intersection and	Improve safety and increase traffic capacity	Annual CTP Request, SR 1 Land Use &	Yes
Lewes	road improvements		Transportation Study	
US 9 to SR 24, west of Lewes and Rehoboth Beach	Consider building a connector road for local traffic	Increase traffic capacity and provide local access to services	Annual CTP Request, SR 1 Land Use & Transportation Study	Yes
SR 26 & SR 54, from SR 1 to US 113	Consider providing more direct connections to US 113	Improve evacuation safety, reduce congestion in resort areas	US 113 North/South Study, Feedback from the Planning & Zoning Commission	No
SR 36 and SR 16, from SR 404 to SR 1	Consider constructing capacity and safety improvements	Increase east/west traffic capacity, improve evacuation safety, complement SR 404 improvements	2008 Transportation Plan Update for Sussex County, Feedback from the Planning & Zoning Commission	Yes
SR 20, from Dagsboro to SR 54	Consider constructing capacity and safety improvements	Improve evacuation safety, reduce congestion in resort areas	Analysis of future traffic congestion, Feedback from the Planning & Zoning Commission	No
US 113, in Millsboro a	Consider constructing capacity and	Increase north/south capacity, reduce congestion, complement	US 113 North/South Study	Yes



Table 13.3-5 Additional Capacity Improvement Projects					
Project Location	Purpose	Justification	Source(s) of Proposal	In Previous Plan?	
surrounding	safety	North Millsboro Bypass			
area	improvements	project			
US 9, from SR 1	Consider	Increase east/west traffic	Feedback from the	No	
to US 11	constructing	capacity, improve	Planning and Zoning		
	capacity and	evacuation safety, reduce	Commission		
	safety	congestion			
	improvements				
New Rd, from	Consider multi-	Future traffic pattern	Feedback from Sussex	No	
Nassau Rd to	modal safety and	related to Minos Conaway	County Council and the		
Pilottown Road	operational	Rd and Old Orchard Rd	City of Lewes		
	improvements	projects, improve			
		evacuation safety			

To kick-start these additional capacity needs using a streamlined process, the following milestones have been established for each of the projects in Table 13.3-5. It should be noted that implementation of these milestones relies upon coordination between Sussex County and DelDOT, and is dependent on available funding:

Within 1 Year of Plan Adoption:

- DelDOT should prepare a report(s) summarizing any past studies related to these proposed projects
- Sussex County and DelDOT should prioritize the list of proposed projects and determine which are feasible to move forward for additional study.

1-3 Years After Plan Adoption:

- Based on the prioritized list, Sussex County and DelDOT should initiate planning studies to identify improvement alternatives.
- Sussex County and DelDOT should form Strategic Working Groups to develop early recommendations, and to gain early public support.
- All studies should follow FHWA guidance regarding "Planning and Environmental Linkages (PEL)." The PEL format will expedite approval of any projects eligible for federal funding.

• 3-4 Years After Plan Adoption:

- If planning studies identify feasible transportation improvement projects, DelDOT and Sussex County should work to prioritize the projects in the Capital Transportation Program (CTP).
- DelDOT should begin the project development process and provide regular status updates to Sussex County.



One way for Sussex County to advance capital improvement projects is to create a committee that will be charged with making recommendations to the Sussex County Council about how best to implement the goals, objectives, and strategies in this element of the 2018 Sussex County Comprehensive Land Use Plan.

The committee should be charged with monitoring and evaluating the results of its efforts towards planning, funding, and implementing physical transportation improvements in Sussex County with regular reporting back to the County Council.

13.3.5 Key Corridor Visions

US 113, US 13 and SR 1 are key north/south corridors that are managed under the Corridor Capacity Preservation Program (CCPP). It is a current DelDOT program established in Title 17, § 145 of Delaware Code. Its purpose is to protect corridors serving predominantly statewide and/or regional travel with the following goals:

- Maintain a road's ability to handle traffic safely and efficiently
- Minimize the impacts of increased development growth
- Preserve the ability to make future improvements
- Prevent the need to build an entirely new road
- Sort local and through traffic

The following methods must be explored to implement corridor capacity preservation policy as needed:

- Purchase of access rights
- Purchase of development rights
- Purchase of easements
- Fee-simple acquisition
- Purchase of property rights

These north/south corridors are divided highways with multiple lanes, medians, and wide Rights-of-Way (ROW). Therefore, the strategy for these corridors is <u>preservation</u> of the existing capacity by implementing the methods described above. A very important part of capacity preservation is access management. As development occurs along the CCPP roads, access requests are evaluated by DelDOT on a case by case basis. The investment levels in Delaware's State Strategies for Policies and Spending are used to evaluate potential direct and indirect access to the planned development projects. DelDOT requires alternative access as the priority for projects in Levels 1 and 2 areas but permits direct access in certain cases. For large development projects in Levels 3 and 4 areas, DelDOT does not permit direct access. If alternative access is not available and DelDOT denies access to the corridor, then DelDOT is required to compensate the property owner through the purchase of access rights, development rights, easements, or a fee simple acquisition. For more details, please reference the Corridor Capacity Preservation Manual, which is available on DelDOT's website.



One result of CCPP management is a reduced need for future ROW expansion. Although planning for US 113, US 13 and SR 1 is ongoing, the County is encouraged to strengthen its coordination efforts to develop visions for these north-south corridors. The County will work with DelDOT to ensure these roads are maintained and updated to ensure they meet the needs of users.

US 9, SR 404/18, SR 16, SR 20, SR 24, SR 26 and SR 54 are key east/west corridors that are not managed under the CCPP. They are arterial and collector roads that carry significant regional through traffic that will require capacity improvements to meet future transportation demand. These routes primarily consist of two-lane roads that have narrower ROW than the north/south corridors. Therefore, the strategy for these corridors should be to develop proactive plans to reduce the encroachment of development adjacent to the ROW. This would allow for future capacity expansion along these corridors.

This east/west strategy will require a slightly different approach than the CCPP, but similar methods should be used. For example, access management alone may not be enough to increase east/west capacity, but it should be a component of any future expansion projects. Sussex County should work with DelDOT to evaluate the potential benefits of including these east/west corridors in the CCPP when DelDOT offers counties and municipalities an opportunity to participate in a re-designation process (every 3 years). This process is scheduled for calendar year 2019 and will continue every 3 years thereafter. Potential corridors are evaluated using many factors, such as functional classification, traffic characteristics, surrounding land use, development trends, and public feedback. It should be determined if CCPP designation for east/west corridors is appropriate now or in the future.

The recommendations that follow represent visions for what these east/west corridors could be. Sussex County and its partners should explore appropriate methods to implement these visions.

It is important to note that the visions presented here would require significant commitments by Sussex County and its partners. Together, agencies would need to consider techniques such as, parallel service roads, consolidated intersections and entrances, and increased setbacks. Buildings that front the through roads with rear parking along service roads, and the provision of transit, bicycle, and pedestrian connections are other techniques to be explored. Methods could also include the evaluation of potential by-pass routes to minimize impacts of through traffic and freight-related truck traffic on local communities.

Any significant capacity improvement to any corridor in Sussex County will require a full project development process with the cooperation of the Federal Highway Administration (FHWA). A detailed alternatives analysis would be conducted to determine environmental and personal property impacts. A thorough public outreach process would also need to be conducted. Therefore, the visions presented here for the key east-west corridors are purely conceptual until formal plans are adopted.

• US 9 – from Georgetown to Lewes



Consistent with this Plan's Future Land Use Chapter (Chapter # 4), it is possible to develop US 9 as a business corridor with a mix of residential and commercial uses that provide local residents with access to services they need. Local services would reduce travel to SR 1 for basic needs.

The US 9 vision is also tied to efforts to make the corridor multi-modal. The Georgetown to Lewes Rail Trail is being constructed by DelDOT in phases. When completed, the trail will provide a pedestrian and bicycle path that is separated from car traffic. The trail will serve as both a recreational asset and a transportation option for commuters. Neighborhoods and businesses along the trail could see economic benefits from connecting to it.

While this vision would build a better local community on the corridor, it shouldn't reduce its capacity to handle east-west through traffic. US 9 is a principal arterial and an important freight corridor. Setbacks could be increased to allow for future capacity. Intersections and commercial entrances could be consolidated to reduce access points. Service roads could link local residents to commercial parking lots at the rear of the buildings. This would increase the aesthetic benefits to the community too.

Planning for Route 9 should also complement any future improvement concepts for the Five Points area in Lewes.

SR 404 – from Maryland line to Georgetown, and SR 18 from Bridgeville to Georgetown

Maryland has invested millions to upgrade its portion of SR 404 to improve the flow of regional traffic heading towards the coast. This corridor should be preserved to allow for future capacity expansion. Sussex County could lead a comprehensive pubic engagement process to reach consensus on how the corridor should develop.

Close attention should also be paid to the land use along this corridor. There could be economic development potential if services are provided to travelers.

SR 16 – from Maryland line to SR 1

Similar to the vision for SR 404 above, SR 16 should be explored as an alternative east-west corridor providing relief for SR 404/18 and US 9. This corridor should also be preserved to allow for future capacity expansion and prevention of intermittent development encroachment. Early concepts should be discussed with local residents and businesses. Sussex County and its partners could form a Strategic Working Group to engage all stakeholders and the public.

A grade-separated intersection is already programmed for SR 16 and SR 1. Steps could be taken to preserve the corridor as an east-west route that links western travelers with the SR 1 corridor.



SR 20, SR 24, SR 26 and SR 54

These east/west routes carry a significant amount of traffic accessing Delaware's coastal resort areas. DelDOT is investing in both of these corridors by programming and constructing capacity improvements. Recently, DelDOT completed major improvements to SR 26, which included multi-modal facilities. Expansion projects are also planned for SR 24 leading into Rehoboth Beach.

Going forward, Sussex County should work actively with DelDOT and other planning partners to anticipate future growth on these corridors and time it with adequate transportation improvements. Local traffic could increase due to development pressure on both routes. Regional traffic could also increase on SR 24 due to the planned bypass of northern Millsboro, which will link SR 24 with US 113.

A variety of techniques could be used to implement these visions, plus some others that have not been explored. The following section presents several solutions to help the County make lasting improvements to its transportation system. Sussex County will be seeking input from its partners, including the public, on how best to proceed with these solutions.

13.4 SOLUTIONS FOR OUR FUTURE

Sussex County and its partners have a shared interest in responding to current and future transportation challenges. By working together to develop creative solutions, the County will fulfill its vision of becoming a transportation leader. Considering the anticipated growth in Sussex County, a single strategy or solution will not address growing accessibility and mobility needs. Broader challenges associated with growth and development warrant a suite of solutions, rather than the focus on a single project, strategy or solution. This can be achieved through a combination of capacity, fiscal, collaborative, and reliability solutions.

13.4.1 Capacity Solutions

Sussex County needs additional roadway capacity to address increasing demand on the transportation system right now. Sometimes that capacity may come from methods other than building new or expanding existing roads. The following are several types of capacity solutions that represent current tools, future recommendations, and possible opportunities that could create some vitally needed roadway capacity by reducing current vehicular demand.

Operational Capacity Solutions

• Transportation Operations Management Plan (TOMP) –The Sussex County TOMP, which was recently published, proposes several strategies including, but not limited to, traveler information systems, incident management, transit management and operational capacity improvement techniques such as managed lanes. The TOMP takes into consideration causes of congestion, seasonal traffic variation and overall projected traffic growth and suggests solutions to improve operational capacity for key corridors based on millions of traffic data points. These data points are collected over years using automatic



data collection techniques with various devices, such as Bluetooth detectors and traffic signal system detectors. Such extensive datasets, combined with appropriate context framework, help determine where and when infrastructure investments should be made. TOMP also provides a framework to understand efficiency of transportation network as a system rather than examining one location at a time.

• Integrated Transportation Management System (ITMS) – The Transportation Management Center (TMC) at DelDOT has an ITMS Program and has been a major champion of implementing ITMS throughout the state. A total of 248 miles along key roadway corridors in Sussex County (including SR 1, US 13, US 113, SR 16, SR 404/18, US 9, SR 24 and SR 30) have been identified as a part of Transportation Management Investment Areas and are being evaluated on factors such as congestion, traffic volumes, transit routes, goods movement activity, seasonal/recreational travel demand as well as use of an alternate or bypass route. The ITMS Program maintains a computerized signal

The SR-1 system. corridor in Sussex County has been identified as a traffic responsive corridor, where adaptive signal systems and/or real-time traffic flow monitoring can be implemented to maximize the corridor operational capacity in



response to real-time travel demand.

- Connected and Automated Vehicles (CAV) CAVs are vehicles that utilize technology to communicate with other vehicles, connected devices and the transportation system. Fully automated vehicles are a fast-evolving technology; some vehicles are already equipped with automated functionalities such as self-parking and collision avoidance. Automated vehicles have potential to supplement mobility options for the elderly and people with disabilities as the age at which senior citizens stop driving their own vehicle may shift significantly with automated vehicle technology. The County should work with DelDOT in the future as this technology evolves to update ordinances and plans for this futuristic transportation option.
- Flexible Transit Routing As discussed earlier in the chapter, flexible transit routing
 provides an intermediate service option in-between conventional fixed-route transit
 service and demand responsive paratransit service. Potential for providing more flex
 service routes within Sussex County should be assessed based on the operating
 performance of the existing three flex transit routes.

Connected Solutions



The design of street networks is important in providing accessibility for residents and businesses, optimizing network efficiency, and building sustainable communities. Good network patterns have a high degree of connectivity while also providing a diversity of street types that serve various uses ranging from higher-volume commercial to lower-volume residential.

Connected Designs – Sussex County residents enjoy the rural character that defines the
majority of the County's land. As a result, many residents may resist connector roads for
fear they will create a grid network of streets. Therefore, a compromise between
connectivity and residential privacy should be the theme in the County. There could be
opportunities to work with developers on Public-Private Partnership (P3 – discussed later
under Fiscal Solutions) initiatives that promote connected designs.

Local street interconnectivity plays an important role in ensuring efficient transportation systems. In early parts of the last century, streets were designed with well-connected street networks providing necessary linkages between local roads and offering more travel choices. The latter half of the century witnessed shifts in land-use decisions focused on car-oriented designs that resulted in reduced interconnectivity of local streets. This lack of street connectivity has resulted in an over-reliance on the higher classification roadway system for local trips, more traffic congestion, longer travel times and greater travel distances.



Traditional Residential Cul-de-sac

VS

Neighborhood Commercial Mixed-Use Focused Connected Network

Interconnectivity between similar land uses aligns perfectly with the principles of Residential Planned Communities described in the earlier Chapter 12 on Community Design. Appropriate provision of connector roads for local trips can help to reduce congestion on arterial roads, reduce travel distances and improve travel time for local trips, introduce travel route redundancy in local street network and reduce emergency response time for fire, police and EMS services. It can also foster opportunities for community interaction by eliminating barriers between developments and provide better connectivity for non-motorized travel options like walking and bicycling.



There are a few disadvantages related to increased interconnectivity, such as increasing through traffic on residential streets. However, there are ways to plan and design connector roads better to avoid or minimize through traffic impacts on residential streets. The focus needs to shift on encouraging subdivision design that can provide a balanced mix of residential seclusion and local connectivity.

DelDOT's Development Coordination Manual provides overview, purpose, scope and objectives for achieving interconnectivity with existing and potential future developments.

Shared Access Driveways – Access management is a set of street design techniques
that control where vehicles may enter and leave the road. Consolidation of closely spaced
driveways, especially for commercial properties has proven to be an effective access
management technique to maximize mobility efficiency by improving traffic flow and
reducing congestion.

Demand Management Solutions

Travel Demand Management (TDM) refers to various methods and best practices that seek to reduce or redistribute travel in place or time. TDM emphasizes moving people and goods, not vehicles, and efficiently using available resources. TDM typically focuses on increasing options and alternative modes, particularly for commuter trips.

While sprawling development in Sussex County makes it significantly auto-dependent in terms of transportation mobility, the reliance on single occupant vehicles (SOVs) can be effectively reduced through public awareness programs and promotion of shared use travel options that are becoming prevalent with the turn of the century.

- DART's RideShare Delaware Program offers:
 - Free ridematching services for commuters working or living in Delaware as well as for parents of Delaware school students
 - A Guaranteed Ride Home (GRH) benefit, which is provided for registered commuters actively ridesharing to work
 - Vanpool services and information
 - Transportation benefit assistance to employers in Delaware



• Private Ride-Sharing/Ride-Hailing – Delaware is now among more than 30 states with new, statewide laws for mobile app-based ride-sharing/ride-hailing platforms like Uber or Lyft. In 2014 Uber launched UberPOOL in Delaware, which enables people going to the same place at the same time to share the journey. In 2015, Uber started providing ride-sharing/ride-hailing service in the Sussex County resort towns of Rehoboth Beach, Dewey Beach and Bethany Beach. Currently both Uber and Lyft provide ride-sharing/ride-hailing service in various parts of Sussex County.



- Seasonal Shuttle Service Seasonal service focused on providing local connections between the park and ride facilities and local resort area destinations, thus encouraging visitors to park once and use the convenient shuttle service to avoid congestion.
- Potential for Additional Shuttle Service Public-Private Partnership opportunities (discussed later under Fiscal Solutions) are possible if incentives are provided to encourage local businesses and community organizations to provide local shuttle service option for their patrons and residents.

One opportunity can be to provide a privately-run coordinated shuttle service by resort area hotels linking all area hotels with key resort destinations. Special provisions such as allowing use of shoulders by small shuttle buses will encourage overnight hotel patrons to keep their cars at hotels and use this shuttle service to avoid congestion on resort area roadways.

Another potential opportunity for a shared-use shuttle option is to incentivize home-owner associations to provide either fixed or flexible local shuttle service for their residents, which will help to reduce local auto dependent SOV trips and help alleviate congestion on key roadway corridors.

Parking Incentives – Many parking, and park-and-ride facilities are promoting reserved
and preferential parking spots for carpoolers and other high occupancy vehicles. Also,
some parking authorities are charging reduced parking fees or providing free parking for
a number of battery electric vehicles (BEVs) to encourage use of environment-friendly
cleaner vehicles.

In addition to encouraging use of HOV through parking management techniques, technological advancements in parking have been a key factor to reduce additional driving/circling to find parking spots. Through online or smartphone applications, drivers can identify when and where parking is available at their destinations. Using real-time monitoring, cities and business districts are effectively reducing congestion caused by searching for available parking.

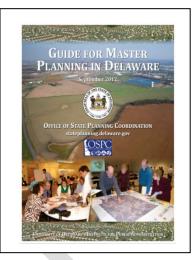
13.4.2 Fiscal Solutions



Sussex County can explore potential fiscal solutions including but not limited to the ones identified in this section.

Master Planning and Associated Funding Techniques

– Master planning involves conducting a tangible and interrelated assessment of the existing transportation system as related to land use, community facilities, open space, housing, and economic development policies. The process establishes a shared vision of the future for these elements and develops a roadmap to achieve that vision through implementation of supporting policies and actions. The "Guide for Master Planning in Delaware" published by the Office of State Planning Coordination is a helpful resource.



• Transportation Improvement Districts (TIDs) – A TID is

a geographic area defined for the purpose of securing required improvements to transportation facilities in the area. It uses the master planning process to link development and transportation improvements and is an innovative and predictable funding mechanism that is being used to finance construction, maintenance and expansion of transportation infrastructure.

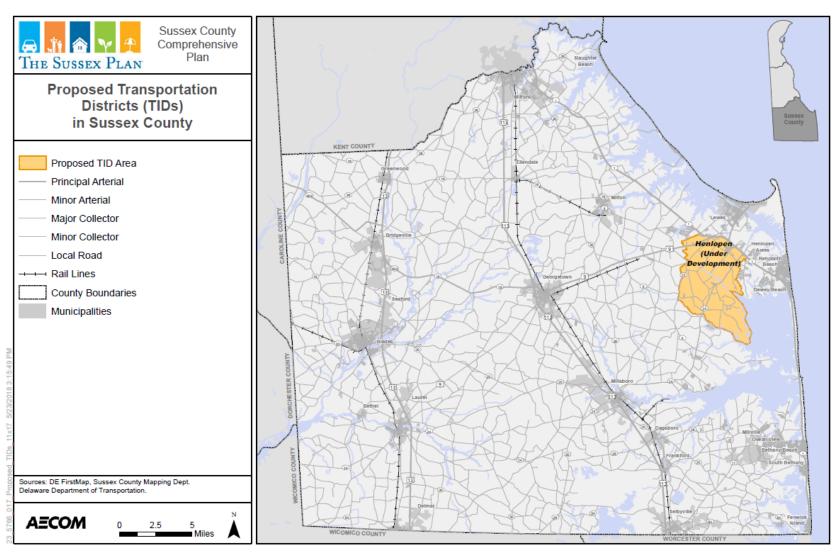
Using a transportation-based impact fee, TIDs set the stage for market-ready development and/or redevelopment. They provide a way to equitably distribute the cost of development-related growth and infrastructure improvements to the private sector that benefits from the facilities. TIDs support complete communities vision, focus transportation investments in high growth areas and improve cost-effectiveness and efficiency of transportation improvements. Projects located within TIDs are given extra consideration or points in the project prioritization process.

Currently, Henlopen TID is under development in Sussex County as shown in Figure 13.4-1.

The proposed Henlopen TID is located just south of Lewes and comprises of a total area of nearly 17 square miles encompassing 69 intersections. DelDOT has made and continues to make significant infrastructure improvement



Figure 13.4-1: Proposed Transportation Improvement Districts (TIDs) in Sussex County- DRAFT





investments along SR1 and other corridors within the TID boundary. However, the area continues to grow rapidly attracting seasonal tourist trips and year-round local trips resulting in significant congestion during certain periods both on weekdays and weekends. The establishment of this TID will provide the County and DelDOT with a systematic and holistic approach for the orderly funding and prioritization of new transportation infrastructure projects to meet predicted future growth.

- Dedicated County Transportation Funding While more than 90% of the roadways in the State are maintained by DelDOT (the rest are privately maintained), the creation of a dedicated county transportation fund could be an innovative fiscal solution to support infrastructure projects that are considered as top priority for the County. This potential county fund is a feasible option if the money is only used as a match to supplement state and federal CTP project funds for projects in Sussex County. Any funds would be the property of and administrated solely by Sussex County and would only be authorized for use on transportation improvements in Sussex County. The State/County match ratio (or percentage) would need to be determined by agreement between both parties.
- Transportation Impact Fees This is a one-time fee charged for new development or redevelopment projects, wherein a developer is charged for any potential infrastructure improvements specifically needed due to the development or redevelopment project. Another option is for developers to build required infrastructure improvements in lieu of the fees. Impact fees can be a viable means of finance for a variety of localized infrastructure needs created by growth. These impact fees and/or developer-led infrastructure improvement projects are handled through the traditional Traffic Impact Studies (TIS) and Traffic Operations Analysis processes managed by the Development Coordination team at DelDOT.
- DelDOT Community Transportation Fund (CTF) DelDOT's Community Transportation
 Fund provides a fixed amount of funds annually to each State Senator and House
 Representative to be used for transportation improvements within their districts. To be
 considered for funding through CTF, proposed transportation improvements need to meet
 three criteria as follows:
 - Have a transportation component
 - Be on a public property or land dedicated to public-use with certain restrictions
 - Benefit more than one individual

While available CTF funds can only address small scale transportation improvements, it's still a valuable funding source to address local community requirements for projects such as sidewalk construction and repair, repaving etc.

 Tax Increment Financing (TIF) - Tax Increment Financing provides money for transportation improvements from anticipated growth in property tax revenues resulting from a redevelopment plan. Transportation can benefit from this strategy, through targeted investment in infrastructure such as street construction, expansion, traffic control, bridges,



curbs and sidewalks, and even parking structures within the TIF districts. Currently, 49 states (including Delaware) have enacted legislation enabling tax increment financing. 2

Public-Private Partnerships (P3) – As discussed earlier, P3s cover a broad range of innovative contracting, project delivery and financing arrangements between public and private sector partners to undertake transportation infrastructure improvements and increase private sector participation in delivery of projects. P3s provide a market-driven source of transportation project delivery to undertake major infrastructure improvement projects. P3s are being utilized for transportation infrastructure improvements across the United States, and various project financing and delivery methods are available based on the extent of desired participation from the private sector.

13.4.3 Collaborative Solutions

The County is looking to take a more active role in the transportation process. This will take the form of many different collaborative solutions. The following are a number of ways the County is looking to increase participation.

 Resources for Local Communities – DelDOT supports and administers several community-driven programs that coordinate mobility and access choices. The following is only a sample of resources that local governments can use to accomplish their mobility goals.

DelDOT Transportation Alternatives Program (TAP) – The Federal Surface Transportation Block Grant Program (STBG), administered by DelDOT through its TAP Program, provides funding for transportation alternatives projects for qualifying TAP categories listed in federal legislation.

Complete Communities Toolbox³ – The way a community is designed can impact transportation options, community livability, business climate and sense of place.

13.4.4 Reliability Solutions

• Senior Transportation Opportunities – There are more than 50 taxi service companies based in different parts of the County. Efforts should be taken to increase Senior Citizen Affordable Taxi (SCAT) Program provider participation so that many other residents can benefit from the SCAT Program.

¹ Source: Alternative Funding Strategies for Improving Transportation Facilities, North Carolina Department of Transportation

² Sources: Council of Development Finance Agencies. "Tax Increment Financing State Statutes" and "Title 22-Chapter 17. Municipal Tax Increment Financing Act" of the Delaware Code

³ Source: www.completecommunitiesde.org



Also, Sussex County should continue to support the efforts of non-profit and other partner organizations such as ITN Southern Delaware and CHEER to expand their services for senior citizens and persons with disabilities in all parts of the County.

 Bicycle and Pedestrian Planning - Sussex County and its partners should continue supporting bike and pedestrian planning at both regional and local levels. The entire state has a shared interest in building a connected system of safe pathways.

Delaware has undertaken a statewide policy-oriented master plan (currently under development) to improve bicycle friendliness and encourage increased use of bicycles as an alternative travel mode for appropriate short-distance travel as well as recreational trips. In 2012, Lewes became the second bicycle-friendly community in Delaware, and in 2016, Phase I of the Georgetown-Lewes Trail opened.

Upon its completion, the "Blueprint for Bicycle-friendly Delaware" will be a great resource for promoting the use of bicycles and improving safety for bicyclists in Sussex County.

Climate Framework and Evacuation Planning – An efficient transportation network is
the key backbone of evacuation planning and DelDOT has begun a process to identify
nature-based approaches to increasing resilience of Delaware's transportation system.
State Route 1 along the coastline in Sussex County is an example where nature-based
resiliency enhancement approaches are being assessed.

13.5 PARTNERSHIPS FOR MOBILITY

13.5.1 Delaware Department of Transportation (DelDOT).

DelDOT maintains nearly 90% of the roadway network in the County and is responsible for facilitating efficient options for other modes of travel such as transit and non-motorized (bicycle and pedestrian) travel. As a key partner, Sussex County participates in the planning and capital programming process with DelDOT.

A focus on a strategic, long-range and highly-coordinated process between municipal, County and state partners, which will truly integrate land use and transportation at a regional level to address current as well as anticipated future issues will be important in the implementation of this plan. The existing transportation system elements (see Figure 13.1-1) and issues are discussed in Section 13.2. The linkage between land use and transportation is critical as land use decisions made without understanding the full impact to the





transportation system can lead to costly unintended consequences Delaware Department of Transportation(DelDOT).

DelDOT Mission – DelDOT strives to achieve excellence in transportation for every trip made by every mode for everyone by utilizing every dollar efficiently. DelDOT focuses on:

- Safe, reliable and convenient travel for both people and commerce.
- Multiple choices of travel including roadways, rails, buses, airways, waterways, bike lanes/ trails and sidewalks/ walking paths.
- Best value for every dollar spent.
- Engaging customers and employees in respectful and courteous manner.

Delaware's transportation network is continually evolving based on changes in land use, demographics, travel patterns, consumer preferences and technology. "Innovation in Motion" is the most recent long-range plan update that identifies goals, policies and priorities to meet statewide long-term transportation needs over the next 20 years. This is a collaborative process with consistent input from all DelDOT's partners including Sussex County. The plan is geared towards improving quality of life for everyone and will be an ongoing process for DelDOT.



Council on Transportation (COT) – The Council is a nine-member panel appointed by the Governor. The Council serves in an advisory capacity on issues relating to transportation and other matters that may aid DelDOT in providing the best possible transportation services for the traveling public. The Council sets transportation priorities (formally known as DelDOT's Project Prioritization Process), adopts DelDOT's Capital Transportation Program (CTP), approves highway realignments and reviews



certificates of convenience and necessity issued by DelDOT to public carriers (except for schools and churches) for transportation services. Sussex County has representation on the COT.

Delaware Transit Corporation (DTC) – DTC is an operating division of DelDOT, and operates DART First State, which provides fixed route bus, seasonal bus, and door-to-door paratransit service for the general public. DTC also provides Delaware RideShare that matches people with rides throughout the state. DART is an important partner for Sussex County, especially considering County's aging demographics, where



paratransit service and DART's Senior Citizen Affordable Taxi (SCAT) program play a key role in



County public transportation. DART's summer "Beach Bus" service also helps Sussex County to promote a hassle-free and convenient transportation alternative for resort visitors.

In addition to DelDOT, Sussex County works closely with other key entities and organizations to strengthen partnership for mobility as follows:

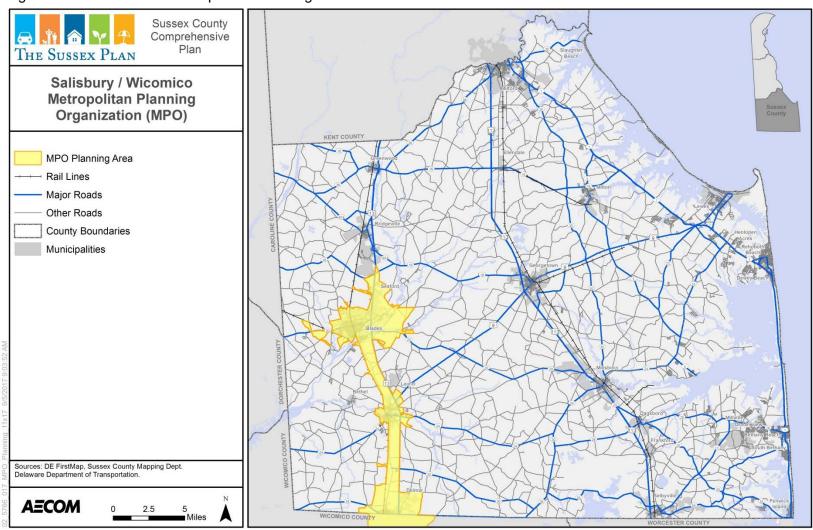
Salisbury/Wicomico Metropolitan Planning Organization (S/W MPO)

Metropolitan Planning Organizations (MPOs) are required by federal law for any Census-designated urbanized areas. They provide a forum for local officials, public transportation providers and state agency representatives to plan for a region's current and future transportation needs. The Salisbury/Wicomico MPO is located in the central portion of the Delmarva Peninsula (see Figure 13.5-1) and covers some Sussex County jurisdictions, such as the City of Seaford, the Town of Blades, the Town of Laurel and the Town of Delmar, and other unincorporated areas along US 13. The County partners with the S/W MPO to develop their annual Transportation Improvement Program (TIP), which is a key contributor to DelDOT's Capital Transportation Program (CTP).





Figure 13.5-1: S/W MPO Metropolitan Planning Area - DRAFT





The primary function of the S/W MPO is to establish goals, objectives and policies governing transportation planning in the region and to prepare and adopt strategies for a Long-Range Transportation Plan (LRTP). The MPO also makes planning funds available to all jurisdictions in its boundary through its annual Unified Planning Work Program (UPWP). Sussex County Council has representation on the MPO's Technical Advisory Committee (TAC) and the Executive Council.

The S/W MPO Council unanimously adopted the update to the MPO's LRTP, "Connect 2045," on November 24, 2015 to guide transportation improvements in the MPO region over the next 30 years. "Connect 2045" was developed in conjunction with the Maryland and Delaware Departments of Transportation, local agencies and governments, like Sussex County, and the public. Transportation projects within the MPO



boundary are required to be included within "Connect 2045" to qualify for federal funding. The plan has identified roadway, transit, bicycle and pedestrian improvement projects within the MPO area grouped as immediate priority (1 to 5 years), intermediate priority (6 to 10 years) and long-range priority (10 years and beyond). The plan can be amended if future project needs change.

Delaware Office of State Planning Coordination (OSPC)

The Office of State Planning Coordination is a key partner with a mission to continually improve the coordination and effectiveness of land use decisions made by state, County, and municipal governments while building and maintaining a high quality of life. Its precursor the Delaware State Planning Office prepared the County's first Comprehensive Plan in 1970. It seeks to coordinate state agency review of major land use change proposals prior to submission to local governments; conducts research, analysis, and dissemination of information concerning land use planning; and aids the effort of the state to meet the information needs of state agencies and local governments, especially in the realm of spatial data and Geographic Information Systems (GIS).

Other Partners

In addition to DelDOT, DTC, S/W MPO and OSPC, there are several other transportation service providers and partners that offer various transportation services/support for both people and freight movement.

Some of these providers and partners are specifically focused on providing viable transportation options for aging and disabled people. The Delaware Aging and Disability Resource Center (Delaware ADRC) provides a searchable database of supplemental transportation service providers offering such services in Sussex County. Some of these



providers include the following: Generations Home Care, ITN Southern Delaware, and CHEER.

There are other partners, such as Bike Delaware, Delmarva Water Transport Committee (DWTC) and short line railroads that promote travel options and efficient freight movement in the county.

Also, there are numerous private (for profit) transportation providers and taxi companies based in Sussex County providing transportation services to Sussex County residents, businesses and visitors alike.

Public-Private Partnerships (P3)

Through Executive Order 1 by Governor John Carney, the Delaware Economic Development Working Group (DEDWG) was formed to come up with policy recommendations regarding the use of a P3 to foster economic development in Delaware. While the primary focus of the order is to foster P3 opportunities for economic development and job creation, availability of efficient transportation infrastructure to facilitate mobility, both for people and goods, is a key element to ensure economic development goals can be achieved. Delaware is one of the twenty-two states in the country where P3s are authorized in at least one primary sector.

The Public

This comprehensive plan belongs to the residents and businesses in Sussex County. Therefore, the public body is the most important partner as we chart out the future of our transportation system. In the future, more opportunities to engage the general public early on and throughout the entire life-cycle of a collaborative transportation planning process should be explored and implemented. Using such an approach should prove helpful to identify system improvements with strong community support.

Looking forward, dedication and perseverance among all partners is crucially important in responding to our transportation challenges. These "Partnerships for Mobility" will ensure that our County realizes its Mobility Vision by implementing strategies to achieve mobility goals and objectives described in the next section.

13.6 MOBILITY GOALS, OBJECTIVES, AND STRATEGIES

Below is a list of goals, objectives, and strategies for Sussex County's Mobility Element:

Goal 13.1 Explore collaborative transportation solutions.

Objective 13.1.1 Encourage state, county, municipal, private and non-profit entities to work toward common goals.



Strategy 13.1.1.1 Work with DelDOT, the Office of State Planning Coordination and other state officials to coordinate transportation decisions as they relate to land use decisions and expanding tourism.

Strategy 13.1.1.2 Partner with DelDOT to consider the establishment of Transportation Improvement Districts (TIDs) or other such approaches in suitable areas.

Strategy 13.1.1.3 Encourage master planning for large-scale developments on large parcels or groups of parcels in the Town Center, Coastal Area, Developing Area, and Commercial land use classifications to provide flexibility in design.

Goal 13.2: Increase the physical and operational capacity of the transportation system in the County.

Objective 13.2.1 Improve mobility for local residents and access to local businesses.

Strategy 13.2.1.1 Support DelDOT in advancing intersection improvements, shoulder widening, alignment improvements, new roadway opportunities, and other local road network projects.

Strategy 13.2.1.2 Establish a committee to advise County Council and DelDOT on recommended transportation improvements in the county.

Strategy 13.2.1.3 Consider working with the state legislature to determine feasibility of establishing dedicated county transportation funding

Strategy 13.2.1.4 Work with DelDOT to evaluate the "Additional Capacity Improvement Projects" identified in this plan by following the recommended implementation milestones.

Strategy 13.2.1.5 Work with DelDOT to evaluate and prioritize potential bypass roads, grade separated intersections or alternate routes for areas affected by heavy tourist and/or freight traffic along existing corridors.

Strategy 13.2.1.6 Support DelDOT in the continued implementation of the Corridor Capacity Preservation Program and evaluate other corridors to be considered for inclusion in the program.

Strategy 13.2.1.7 Implement methods to increase capacity and reduce development encroachment along key east/west corridors as identified in the "Corridor Visions," such as increasing frontage setback requirements, purchasing easements, access management and promoting interconnectivity.



Strategy 13.2.1.8 Explore the use of Strategic Working Groups to introduce and build early consensus on potential improvement concepts in partnership with DelDOT and the County.

Objective 13.2.2 Manage the existing system and demand to make travel more efficient.

Strategy 13.2.2.1 Partner with DelDOT to evaluate the recommendations in the Traffic Operations Management Plan (TOMP) for Sussex County, determine which recommendations should be implemented and report findings and its recommendations to Council.

Strategy 13.2.2.2 Support DelDOT with operational capacity improvement strategies such as the use of managed lanes (such as temporary shoulder use) to create temporary operational capacity during peak times.

Strategy 13.2.2.3 Support DelDOT's uses of adaptive traffic control methods, in which traffic signal timings change, or adapt, based on actual traffic demand.

Strategy 13.2.2.4 Require new commercial developments to be interconnected to the adjoining existing commercial land uses.

Strategy 13.2.2.5 Consider revisiting and revising current functional classification for certain roadways in the county.

Objective 13.2.3 Improve regional traffic flow and reduce impacts of seasonal traffic.

Strategy 13.2.3.1 Examine past studies to determine if any previously-planned projects are feasible to implement, which will reduce the need for additional studies.

Strategy 13.2.3.2 Consider all potential capacity improvement concepts for key north-south and east-west routes, prioritize such projects, recommend implementation to the Sussex County Council and DelDOT and work with DelDOT to build early public support for projects.

Goal 13.3 Improve not only physical capacity of roadways, but also the operational capacity utilizing all means available.

Objective 13.3.1 Working with DelDOT, determine where the following strategies can be most effectively applied, their potential costs and priorities of application.

Strategy 13.3.1.1 Encourage designs that provide a mix of residential seclusion and local connectivity without additional cost or risk to residents.

Strategy 13.3.1.2 Identify suitable areas for potential residential and/or commercial connector roads and consider methods to consolidate commercial entrances along busy corridors.



Strategy 13.3.1.3 Partner with DelDOT to evaluate capacity needs for alternate/secondary routes that are more frequently used.

Strategy 13.3.1.4 Consider market-driven solutions to reduce vehicle traffic in congested areas, including but not limited to, partnerships with ride-hailing companies, promoting car and ride-sharing services, and developing satellite parking lots with shuttles.

Strategy 13.3.1.5 Consider higher- density mixed-use development in appropriate areas with current or future access to travel options, consistent with recommendations in the Land Use Element.

Strategy 13.3.1.6 Partner with DelDOT to support the Byways Program and to implement the recommendations of the Corridor Management Plans (CMPs) for all scenic and historic byways in the County.

Strategy 13.3.1.7 Research the effectiveness of Level of Service (LOS) ordinances in surrounding counties and consider implementing similar LOS standards in order to use future traffic impacts in the development approval process.

Goal 13.4: Acknowledge evacuation needs to ensure safety, security and reliability of the transportation system.

Objective 13.4.1 Obtain information from DelDOT about efficiency of evacuation routes in the areas around Route 26 east of Route 113, Route 54 east of Route 113, Increase frontage setbacks on Route 24 east of Route 113, Route 9, Route 16, Route 18 west of Route 113.

Strategy 13.4.1.1 Partner with state officials to consider the transportation recommendations in The Climate Framework for Delaware, The Climate Action in Delaware: 2016 Progress Report, Sussex County's "All Hazard Mitigation Plan" and future companion documents.

Strategy 13.4.1.2 Continue working with DelDOT to improve evacuation routes by analyzing vulnerability and developing plans for coastal communities.

Strategy 13.4.1.3 Identify potential local routes that could serve as alternative or secondary evacuation routes.

Strategy 13.4.1.4 Ensure adequate ease of movement using methods such as addition of multi-purpose and/or service lanes to achieve efficient emergency response times in areas where accessibility is difficult for first responders.



Strategy 13.4.1.5 Continue coordination efforts with DelDOT, Maryland State Highway Administration (SHA), and surrounding counties to streamline evacuation across political boundaries.

Objective 13.4.2 Identify investments that improve safety and resiliency of the transportation system with improved methods to track and communicate safety issues.

Strategy 13.4.2.1 Evaluate current technologies and emergency notification systems to ensure state official and the public informed efficiently and effectively.

Strategy 13.4.2.2 Support the expansion of advanced-technology traveler information systems at strategic locations throughout the County and support DelDOT in the continued implementation of the ITMS Program and other monitoring systems at the Transportation Management Center (TMC).

Goal 13.5: Facilitate freight movement throughout Sussex County.

Objective 13.5.1 Support investments that increase the efficiency of freight movement, which is crucial to commerce in the County.

Strategy 13.5.1.1 Coordinate with the Delmarva Water Transport Committee regarding current planning efforts and future challenges.

Strategy 13.5.1.2 Support the implementation of the Delmarva Freight Plan in order to improve freight flow and reduce the impacts to County residents.

Strategy 13.5.1.3 Explore incentives for businesses to switch from truck to rail freight, which can reduce freight costs and road traffic congestion.

Strategy 13.5.1.4 Work with railroad partners to aid in their strategic planning efforts and to help identify potential rail customers.

Strategy 13.5.1.5 Explore the potential for rail infrastructure improvements at the Delaware Coastal Airport industrial park and possible connection to the Delaware Coastal Business Park.

Goal 13.6 Facilitate alternative modes of transportation.

Objective 13.6.1 Encourage mode share improvement for public transit, aviation and water transport.

Strategy 13.6.1.1 Partner with DART on its Transit Redesign efforts, such as transitioning appropriate Paratransit trips to fixed route or flex route services and spreading awareness about the Senior Citizens Affordable Taxi program.



Strategy 13.6.1.2 Partner with DART to improve and expand Flex Route Service for local communities.

Strategy 13.6.1.3 Encourage DART to continue its service planning efforts in order to reevaluate current routes and expand others.

Strategy 13.6.1.4 Partner with DelDOT and DART to strengthen outreach campaigns that encourage alternative forms of transportation, which could include incentives.

Strategy 13.6.1.5 Consider creating a senior transportation guide and/or toolkit to spread awareness about senior transportation options for residents and visitors.

Strategy 13.6.1.6 Encourage the growth of non-profit transportation providers, including but not limited to, ITN Southern Delaware, CHEER, and Generations Home Care.

Strategy 13.6.1.7 Promote commercial businesses' and large scale planned communities' use of transit shuttle.

Strategy 13.6.1.8 Partner with hotels and commercial business in and around resort areas to explore the possibility of coordinated shuttle service.

Strategy 13.6.1.9 Encourage the development of general aviation and tourism at public use airports.

Objective 13.6.2 Encourage non-motorized transportation planning along low-speed roadways.

Strategy 13.6.2.1 Incorporate bike and pedestrian facilities into community master plans where appropriate and consider allowing the use of motor-assisted bicycles along bicycle facilities and trails.

Strategy 13.6.2.2 Support the development and implementation of the statewide bicycle plan, a Blueprint for a Bicycle-Friendly Delaware, and continue to support the creation of recreational trails and shared-use pathways to connect communities to employment, commercial services, recreational opportunities, and to provide safe alternatives to car travel.

Strategy 13.6.2.3 Partner with Delaware's Pedestrian Coordinator to complete sidewalk connectivity projects in conjunction with new development.

Goal 13.7 Explore fiscal and strategic solutions.

Objective 13.7.1 Leverage State and Federal Funding with local funding to advance construction of capacity improvements.



Strategy 13.7.1.1 If the county establishes a new matching funding mechanism then the state should explore the possibility of establishing a new source of matching funds.

Strategy 13.7.1.2 Determine the feasibility of a variety of funding sources including, for example, Public Private Partnerships (PPP or P3), user fees, tolls or other taxes and/or surcharges.

Strategy 13.7.1.3 Partner with DelDOT in the planning and programming of funds designated for maintenance, such as pavement rehabilitation, and bridge maintenance and repair.

Strategy 13.7.1.4 Remain engaged in the DelDOT Capital Transportation Program (CTP) development process and increase coordination of project prioritization and identify and implement potential improvements to the annual capital request process.

