

SERVICES AND FACILITIES REPORT

**SALEM COUNTY
NEW JERSEY**

March, 2001

**SALEM COUNTY PLANNING BOARD
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INTRODUCTION

The Services and Facilities report, along with other studies comprises the background information upon which the County Comprehensive Plan will be based. In order to project and plan for future development, it is important to understand what currently exists, particularly with respect to-

- infrastructure (roads and public sewer and water systems)
- public services – education and health care facilities, etc.
- public amenities – such as parks and recreation facilities
- facilities that attract and support development, such as rail, port, airport, and mass transit

In addition to the usefulness of this report in the development of the County Plan, this information is used in a wide variety of planning studies and can serve as a reference document to anyone wishing to familiarize themselves with Salem County. However, this report, more than any other produced by the County Planning Board staff, will require monitoring and updating on a regular basis, due to the changing nature of the conditions described herein.

I. TRANSPORTATION

- County Roads and Bridges-
- Mass Transit in Salem County-
- Salem County Rail Lines-
- Salem County Airports-
- Ports in Salem-

I. TRANSPORTATION

1. County Roads and Bridges

One of the objectives of government, from the Federal to the local level, is to provide and maintain a circulation system that is both safe and efficient. In a moderate growth area such as Salem County, the focus is usually on the need to maintain and improve the existing road network in response to the problems created by increasing traffic volume and deteriorating transportation facilities. The responsibility for road maintenance and improvement in Salem County is divided among the municipalities, the County, (which is concerned with the intermunicipal system) and the State (which is concerned with major inter-county roads and freeways).

Total Road Mileage

The intra-county transportation needs of the County are served by a network of Municipal, County, State and Federal routes. The local road system interconnecting the urban areas and rural communities of the County is composed of approximately 354 miles of County-administered roads and 447 miles of municipal roads. In addition to serving regional transportation needs, the 46 miles of State roads and 32 miles of U. S. highways (U.S. 40 and 130) are important intra county routes for local travel (this does not include the New Jersey Turnpike or I-295). Table 1 lists the total mileage of each County, State and Federal Route, and the total mileage of Municipal routes within each municipality.

Regional Transportation System

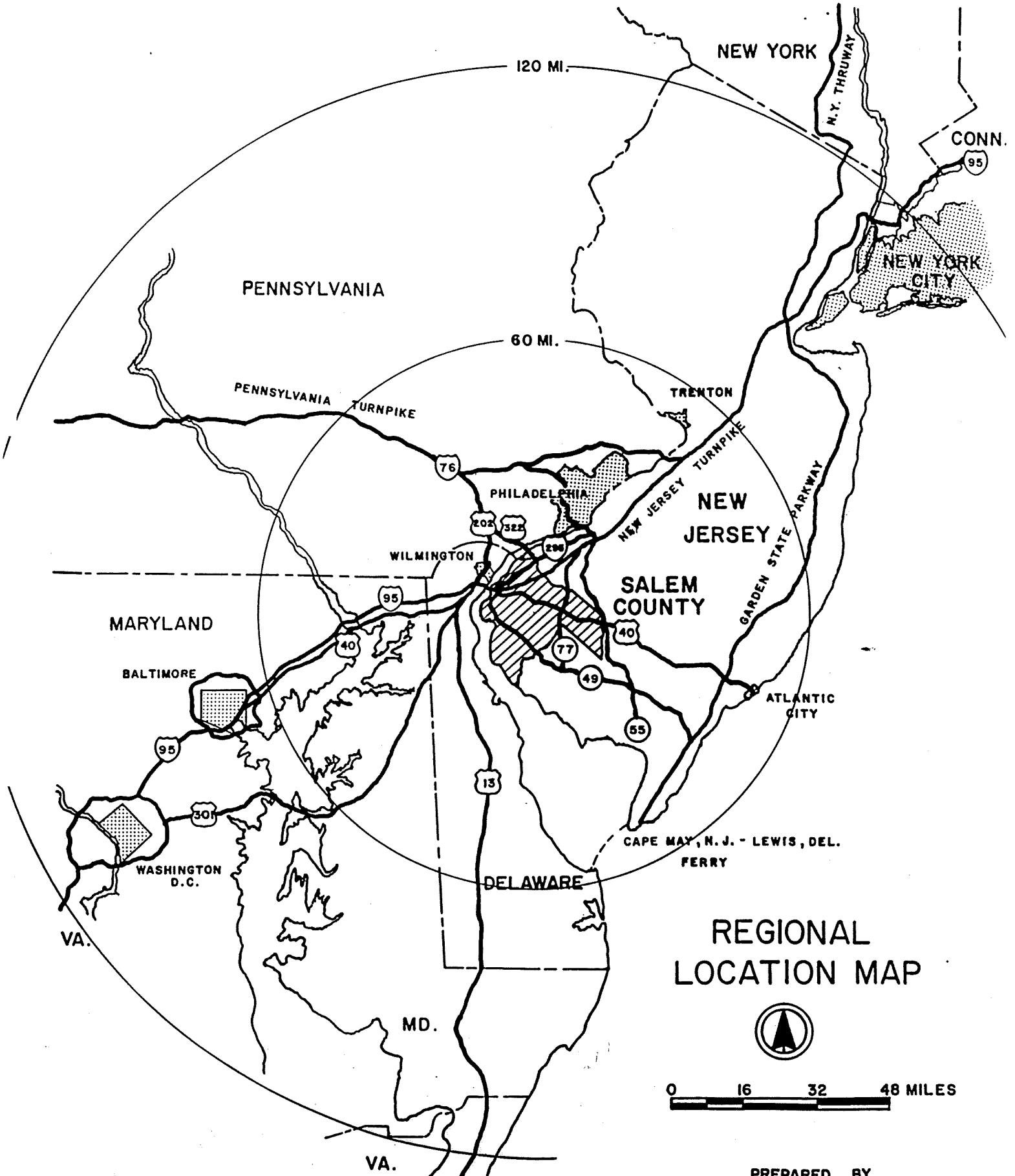
Several Federal and State roads serve the regional transportation needs of Salem County. As can be seen in Figure 1, the County is well situated with regard to a regional transportation system. The Delaware Memorial Bridge links Salem County with the State of Delaware and with Interstate 95, which leads south to Baltimore and Washington, D.C., and north to Philadelphia. Highway access to the Philadelphia Metropolitan area and points north is provided by the New Jersey Turnpike and Inter-State 295 (limited access highways) and by NJ 77 and U.S. 130. U.S. 40 provides direct access to the Atlantic City area, while NJ 49 connects the County with Cape May. Salem's locational advantages and convenient transportation links to Delaware, Pennsylvania, Cumberland and Gloucester Counties, and the resort area of Atlantic City provides a variety of employment opportunities for local residents.

The County Road System

Figure 2 shows the County and US/State Routes in Salem County, along with the functional classification of the County road system. With respect to the County-administered system, the County is responsible for:

- General maintenance (repair, repaving, snow removal, etc.) of all roads and bridges on the County System (and selected bridges and culverts on municipal roads)
- The identification and improvement of conditions contributing to traffic problems and hazards (e.g., a sight obstruction at an intersection creating an unsafe situation).
- The improvement of each road on the County system to the design standards (lane, shoulder, and right-of-way width, etc.) which are required for its particular classification

FIGURE I



REGIONAL
LOCATION MAP



0 16 32 48 MILES

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SALEM COUNTY PLANNING BOARD

TABLE 1
ROAD MILEAGE

<u>ROAD #</u>	<u>COUNTY</u>						
	<u>MILES</u>	<u>ROAD #</u>	<u>MILES</u>	<u>ROAD #</u>	<u>MILES</u>	<u>ROAD #</u>	<u>MILES</u>
601	5.98	621	2.87	642	1.48	663	2.13
602	9.84	623	7.96	643	4.71	664	1.76
603	5.79	624	3.71	644	4.32	665	3.19
604	4.89	625	4.06	645	5.36	666	3.82
605	1.97	626	5.80	646	6.20	667	5.87
606	0.80	627	2.64	647	1.54	668	0.25
607	1.94	628	3.68	648	5.92	669	1.06
608	2.26	629	1.33	649	0.97	670	1.30
609	3.30	630	3.28	650	3.02	671	2.19
610	2.84	631	6.05	651	3.00	672	7.85
611	13.40	632	2.39	652	1.46	674	5.11
612	1.06	633	1.14	653	3.86	675	1.82
613	5.37	634	1.06	654	3.69	676	0.77
614	4.94	635	8.71	655	5.55	677	6.03
615	3.70	636	1.75	656	2.38	678	1.64
616	1.09	637	1.33	657	6.25	679	1.49
617	2.50	638	2.35	658	10.04	690	7.56
618	0.91	639	4.97	659	2.08	540	22.45
619	5.00	640	5.30	660	7.55	551	11.60
620	9.51	641	5.58	661	2.50	553	7.30
				662	0.88	581	13.05

<u>MUNICIPAL</u>	
<u>MUNICIPALITY</u>	<u>MILES</u>
ALLOWAY	37.49
CARNEYS PT.	32.76
ELMER	4.12
ELSINBORO	7.29
LAC	26.88
MANNINGTON	32.82
OLDMANS	44.50
PENNS GROVE	14.00
PENNSVILLE	70.56
PILESGROVE	41.84
PITTSBORO	47.91
QUINTON	21.92
SALEM CITY	14.11
U. PITTSBORO	43.00
WOODSTOWN	7.80

<u>STATE/FEDERAL</u>	
<u>ROAD #</u>	<u>MILES</u>
NJ 45	11.84
NJ 48	4.26
NJ 49	18.76
NJ 56	2.69
NJ 77	7.82
NJ 140	0.95
US 40	22.96
US 130	8.81
NJ Turnpike	7.00
I-295	8.95

<u>TOTAL ROAD MILES</u>	
MUNICIPAL	447.00
COUNTY	354.05
STATE/ US	78.09
I-295 / NJ TURNPIKE	15.95

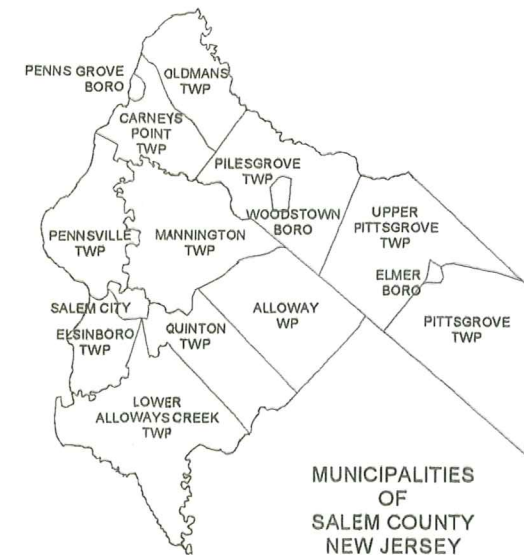
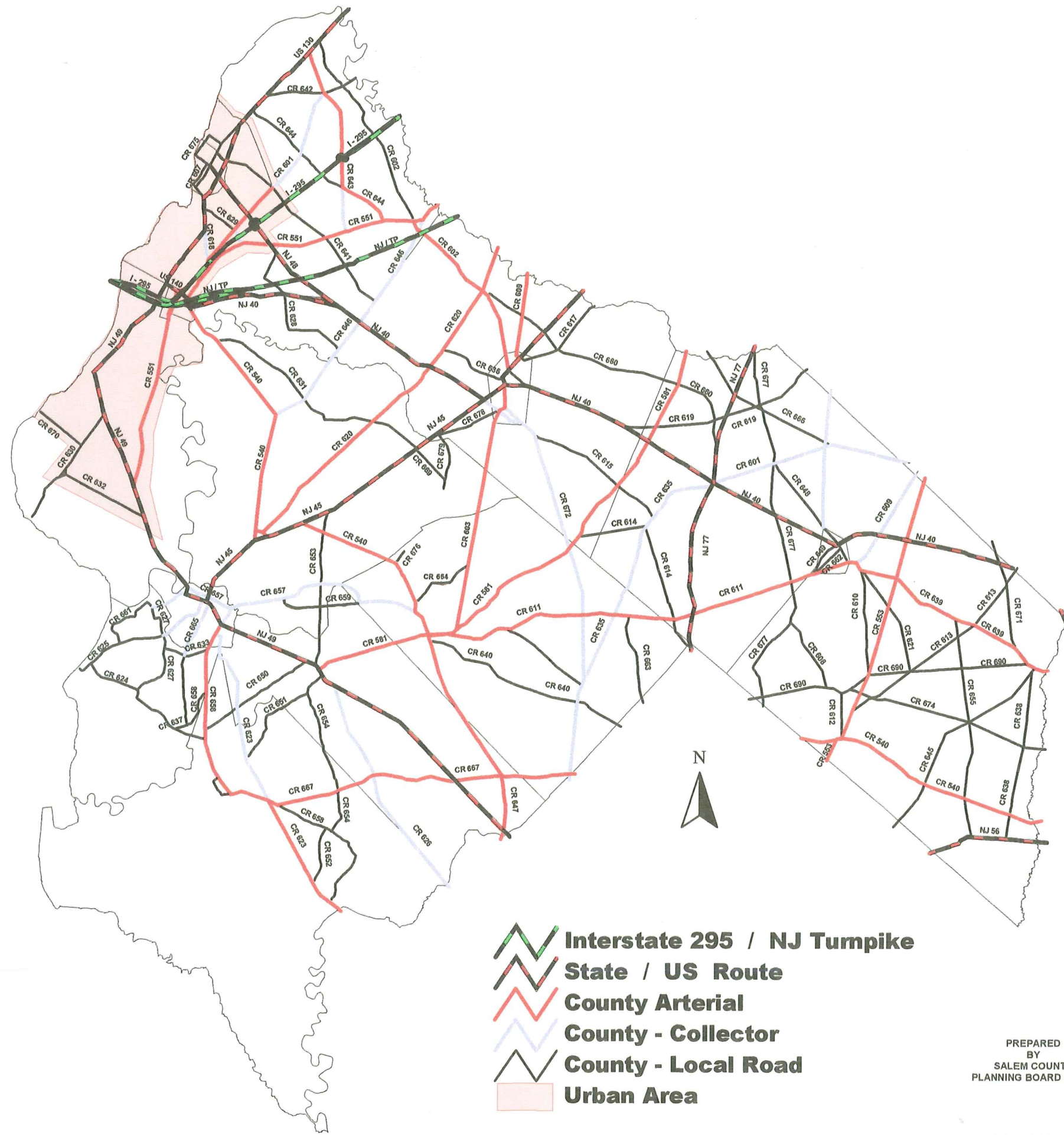


Figure 2
Future
Functional
Classification
System

PLANNED MINIMUM WIDTHS						
COUNTY ROAD CLASSIFICATION	NO. OF LANES	LANE (FEET)	SHOULDER (FEET)	PAVED TRAVELWAY (FEET)	R.O.W. FRINGE (FEET)	TOTAL R.O.W. (FEET)
ARTERIAL 4 LANE	4	12	8	64	22	86
ARTERIAL / COLLECTOR	2	12	6	36	30	66
LOCAL	2	12	6	36	14	50

PREPARED BY
 SALEM COUNTY
 PLANNING BOARD STAFF

Functional Classification System

Due to the fact that most of the roadway lane and shoulder widths on the County system were not originally designed for the traffic volumes and vehicular speeds common today, the task of bringing the system up to required standards is a difficult and expensive one, complicated by the fact that the amount of Federal and State funding assistance available for road improvements fall far short of what is needed. Therefore, transportation planning involves not only the identification and monitoring of traffic problems and hazards, but the classification of the County system based on the function and relative importance of each road. By identifying the major (i.e., arterial) system, and giving priority to this road system for road widening and reconstruction, the County can make the most efficient use of limited roadway funds.

As can be seen in Figure 2, all roads under County jurisdiction are classified either as County arterial roads (the major road system), County collector roads (the secondary system) or County local roads. The roadway construction standards for the three levels of classification (two-lane roads) are –

REQUIRED MINIMUM WIDTHS – IN FEET

County Road Classification	County Road		Paved		
	Lane+	Shoulder+	Travelway	ROW Fringe+	Total ROW
Arterials/Collectors	12'	6'	36'	15'	66'
County Local	12'	6'	36'	7'	50'

+ - One side of road only

ROW- Right-of-way (ROW Fringe is the area outside the paved ROW – one side of road only).

Total ROW -(for a two lane road) includes the entire paved area, plus the ROW fringe areas (both sides of road)

County Bridges

The County maintains all bridges and culverts on County roads and all such structures that have a span of 5 feet or more. In all, the County is responsible for 100 bridges and 42 culverts. 94 of the 142 structures are on roads under County jurisdiction.

2. Mass Transit in Salem County

As it relates to transportation in general and the County Transportation Plan, mass transit has at least a potential benefit. It can help to reduce traffic congestion in urban areas and major highways, as well as reduce air pollution generated from automobile emissions. However, in an era in which most individuals prefer the convenience of their private automobile over bus travel, its primary function is to provide a means of transportation to a segment of the population who cannot afford to own or are unable to drive an automobile.

Mass transit in Salem County consists exclusively of bus transportation. Three types of transportation services are available to County residents:

- Local, intra-urban transit, providing riders with transportation within and between the urban areas of Penns Grove Borough, Carneys Point and Pennsville Townships, Salem City and Woodstown Borough
- Intercounty and interstate transit which, in Salem County, consists of transportation to the cities of Philadelphia, Wilmington, and Camden, as well as points in between (no transit is provided to Atlantic City or New York City from Salem County)
- Specialized transportation services to a select population group

Mass transit in Salem County is provided by Salem County Transit (SCOT), New Jersey Transit (NJT), and Office on Aging senior citizen/handicapped transport services.

Salem County Transit provides two routes –

- **108 Bus Service** - to Penns Grove Borough, Pennsville and Carneys Point Townships, Salem City, Mannington Township and Woodstown Borough
- **423 Bus Service** - between the Penns Grove/Carneys Point/Pennsville urban area and Wilmington, Delaware

New Jersey Transit currently provides three intercounty and interstate routes serving Salem County, i.e., -

- **402 Bus**- originates in the Township of Pennsville and has stops in Penns Grove Borough, Pureland Industrial Park, Woodbury, Camden and Philadelphia
- **401 Bus**- originates in Salem City and travels to Philadelphia via Woodstown Borough, Swedesboro, Deptford, and Gloucester and Camden Cities.
- **410 Bus** - originates in the City of Bridgeton (Cumberland County) and passes through Salem County via NJ77. The route has only one stop in Salem County, that being Pole Tavern in Upper Pittsgrove Township. It provides transportation to the town of Mullica Hill, Camden City and the City of Philadelphia.

A composite of all of the routes provided by NJT and SCOT can be seen in Figure 3.

Municipal Special Transit Services are provided by the County Office on Aging for senior citizens and the disabled and handicapped. Service is provided to shopping centers, public facilities and non-emergency hospital visits. Vehicles provide lift services for those confined in wheelchairs.

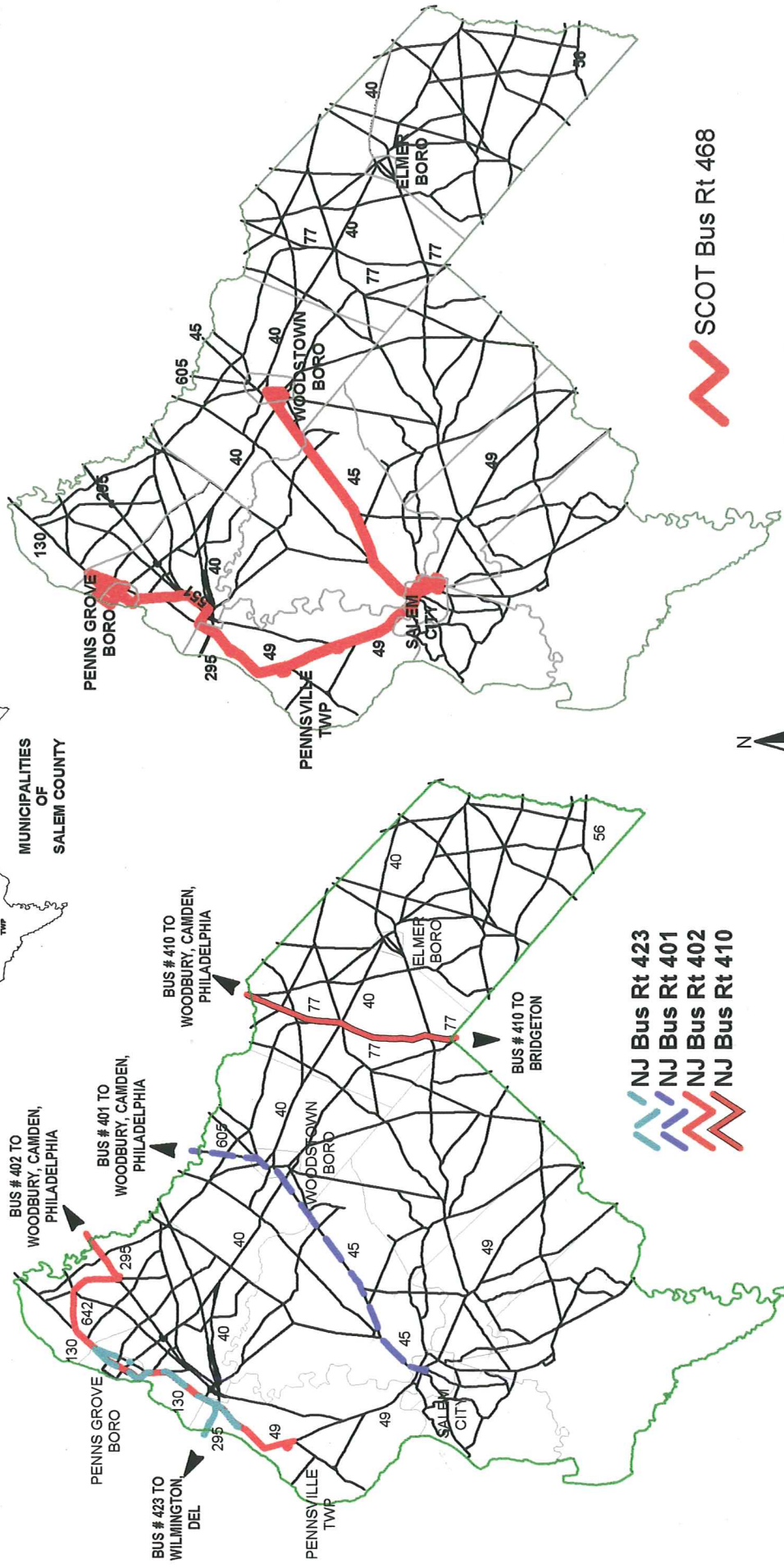
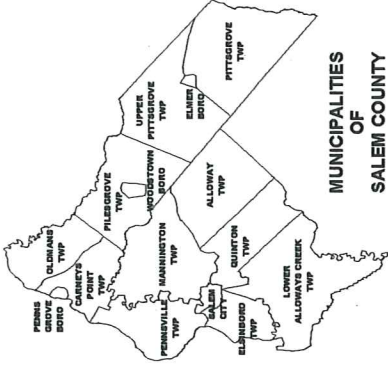
3. Salem County Rail Lines





There are currently three active rail lines providing freight service (there is no passenger rail service in the County) that pass through Salem County. They are illustrated in Figure 4 and described below -

- **Salem Secondary Line** -is an 18.6 mile line which runs from Swedesboro, Gloucester County, through Woodstown and Alloway Junction to its terminus at Salem Port. Connecting Conrail service is available at Swedesboro. The line, known as the Salem Secondary Track, (purchased by Salem County from Conrail in 1985), is operated by Southern Railroad of New Jersey.
- **Cumberland and Maurice River Branch** (three miles of which pass through the extreme southeastern corner of the County in Pittsgrove Township) is owned by Winchester and Western Railroad. The line carries freight through Pittsgrove Township on route from Vineland to destinations in southern Cumberland County.
- **Penns Grove Secondary Line** is owned and operated by Conrail runs southward from Woodbury in Gloucester County, through Oldmans Township and Penns Grove Borough, to Deepwater in Pennsville Township. The line provides service to DuPonts and several other industries in Salem County.

Figure 3

**PUBLIC TRANSPORTATION ROUTES
SALEM COUNTY
NEW JERSEY**



-  NJ Bus Rt 423
-  NJ Bus Rt 401
-  NJ Bus Rt 402
-  NJ Bus Rt 410

New Jersey Transit

- Intercounty And Interstate System -
 Service Provided To -
 Delaware - (Bus Rt.# 423), and Woodbury,
 Camden and Philadelphia - (Rt. #'s 401, 402 & 410)
 Transfer available to Deptford Mall

 SCOT Bus Rt 468

Salem County Transit (SCOT)

- County of Salem -

4. Salem County Airports

Salem County has numerous privately owned airports and airstrips, of which only one, the airport in Oldmans Township (Spitfire Aerodrome), is a public use facility licensed with the Federal Aviation Administration. The remaining airfields are solely for private use (there are no publicly-owned airports in the County).

Spitfire Aerodrome (formerly known as Oldmans Airport) has a 2450 feet runway and 20 aircraft based at the airport. On-site flight instruction, air taxi service, maintenance repairs, limited hanger space and rental aircraft are available. Located adjacent to I-295, the airport offers the possibility of increased economic activity for the County. (see Figure 4 for location).

5. Ports in Salem County

The Port of Salem is owned by the South Jersey Port Corporation and is leased to a private operator. Located at the west end of Broadway (NJ 49) on the Salem River (which has a depth of 17 feet) in Salem City, it is a complex consisting of warehousing and a 100 foot-long tethered floating barge which serves as a dock for domestic and international bulk cargo vessels. The County's rail line (Salem Secondary Track) and the line operator (Southern Railroad of New Jersey) serve the Port and provide connections to CSX/Norfolk Southern. The Port is designated as a Foreign Trade Zone and therefore is excluded from US Customs regulations, which greatly reduces shipping and importing costs (see Figure 4 for location of Salem Port).

It should be noted that the docking facilities downstream or southwest of the Port are privately owned and operated by Mid-Atlantic Shipping and Stevedoring. They are not part of the South Jersey Port Corporation facility, and are not served by the County rail line.

The location of the port makes it easily accessible from not only the Delaware Bay, but also the Chesapeake and Delaware Canal. It occupies a central location in the Boston-to-Washington megalopolis, not only via waterways, but also by means of surface transport (as provided by the County rail line and I-295 and the New Jersey Turnpike via NJ 49).

II. SERVICES AND UTILITIES

--Public Sewer and Water--
-- Electric and Gas --
--Solid Waste Management--

II. SERVICES and UTILITIES

1. Public Sewer and Water Service

As can be seen in Figures 5 and 6, public sewer service and water service are provided in only a small portion of the County. While Woodstown, Penns Grove, and Salem City, and portions of Pennsville and Carney's Point Township are served by sewer and water, the Borough of Elmer and portions of Oldmans Township have only public water service. However, the Borough of Elmer has applied for a grant for a sewer feasibility study with Pittsgrove Township. The villages of Canton and Hancock's Bridge, in Lower Alloways Creek Township, several large industries, and a military/commercial area in Oldmans Township, have small package plants for sewage disposal needs. The remainder of the County uses individual wells and septic systems. Tables 2 and 3 provide a more detailed description of each system.

Water is provided to roughly 14,070 connections throughout the County. All water is drawn from freshwater wells, with the exception of Salem City's Laurel Lake/Elkinton Pond facilities. This surface water source provides approximately 75% of the City's water supply. Approximately 14,840 homes and businesses are connected to public sewerage. All systems have been upgraded to provide some type of secondary treatment.

All of the existing water and sewer systems are operating below total capacity and subsequently have no major plans for expansion. With respect to service, several municipalities, including Pennsville and Carneys Point Townships, have plans to extend their sewer service area within their municipalities, and there is a proposal to extend sewer service from Salem City to the townships of Quinton and Alloway (Quinton and Alloway Villages).

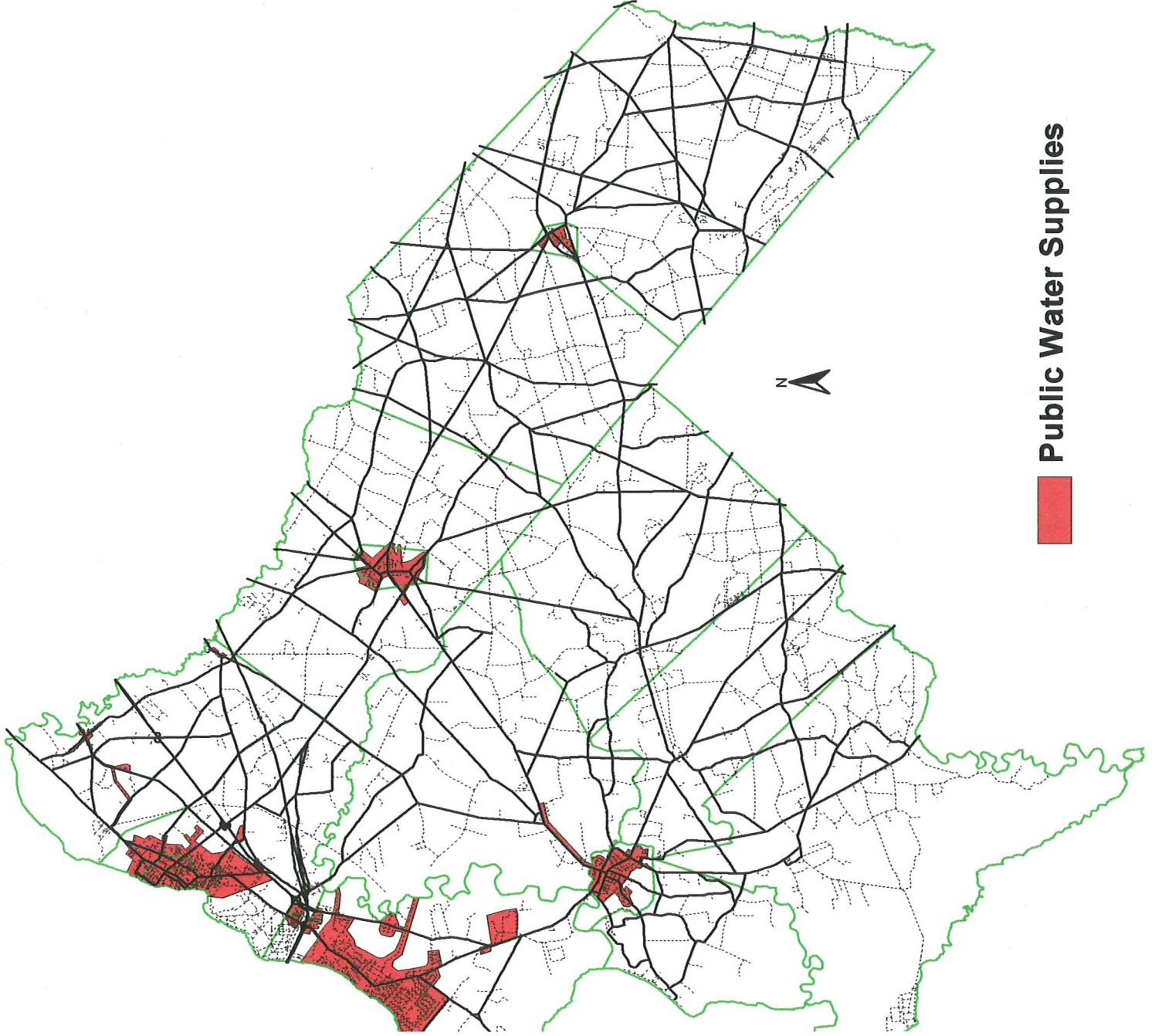
Two major industrial sites in the county, the E. I. DuPont properties near Deepwater and PSEG Artificial Island generating plant, have their own water and sewer/disposal systems designed to suit their specific needs. Both are described in Tables 2 and 3. It should be noted that there is currently a proposal to modify the existing wastewater facilities in Carneys Point and at Dupont in order to provide treatment for Carneys Point, Oldmans and Pilesgrove Townships and Penns Grove Borough.

Given the adverse impact that development can have on water resources, wastewater management requires a carefully planned approach. It should be noted that the Department of Environmental Protection has revised the State Water Quality Management Planning rules to address water quality and watershed management in the same citation. The new rule intends to link the principals of "smart growth", sustainable development, watershed management, and State Development/Redevelopment Plan policies and objectives with infrastructure management and water resource protection. The Rule (NJAC 1:15.8), which will become operative on March 29, 2001, will require amendments to the area's Water Quality Management Plan and environmental analysis for projects or activities that generate 2000 gallons per day or more (e.g., new developments of 6 or more units, 16,000 sq. ft. of commercial building space) to groundwater.

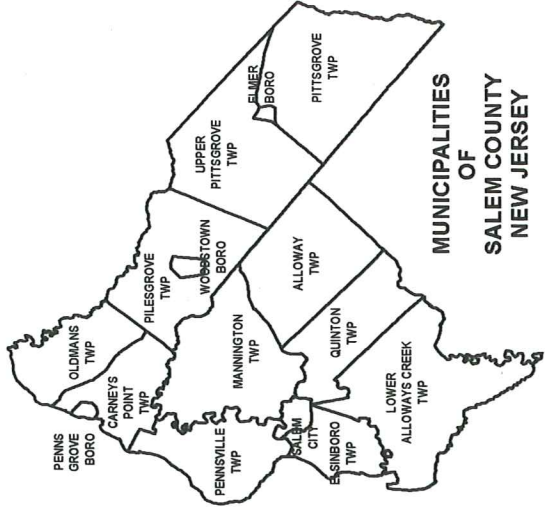
2. Electric and Gas Service

Conectiv

The entire County of Salem is served by Conectiv, which provides electricity to roughly 30,500 customers. Conectiv Power Delivery provides electric service to almost one million customers in Delaware, Maryland, New Jersey and Virginia. Conectiv Power Delivery purchases generation through PJM Interconnection, L.L.C. an independent grid operator that coordinates the operation of 540 generators. Figure 7 shows the electric transmission lines throughout Salem County.



Public Water Supplies

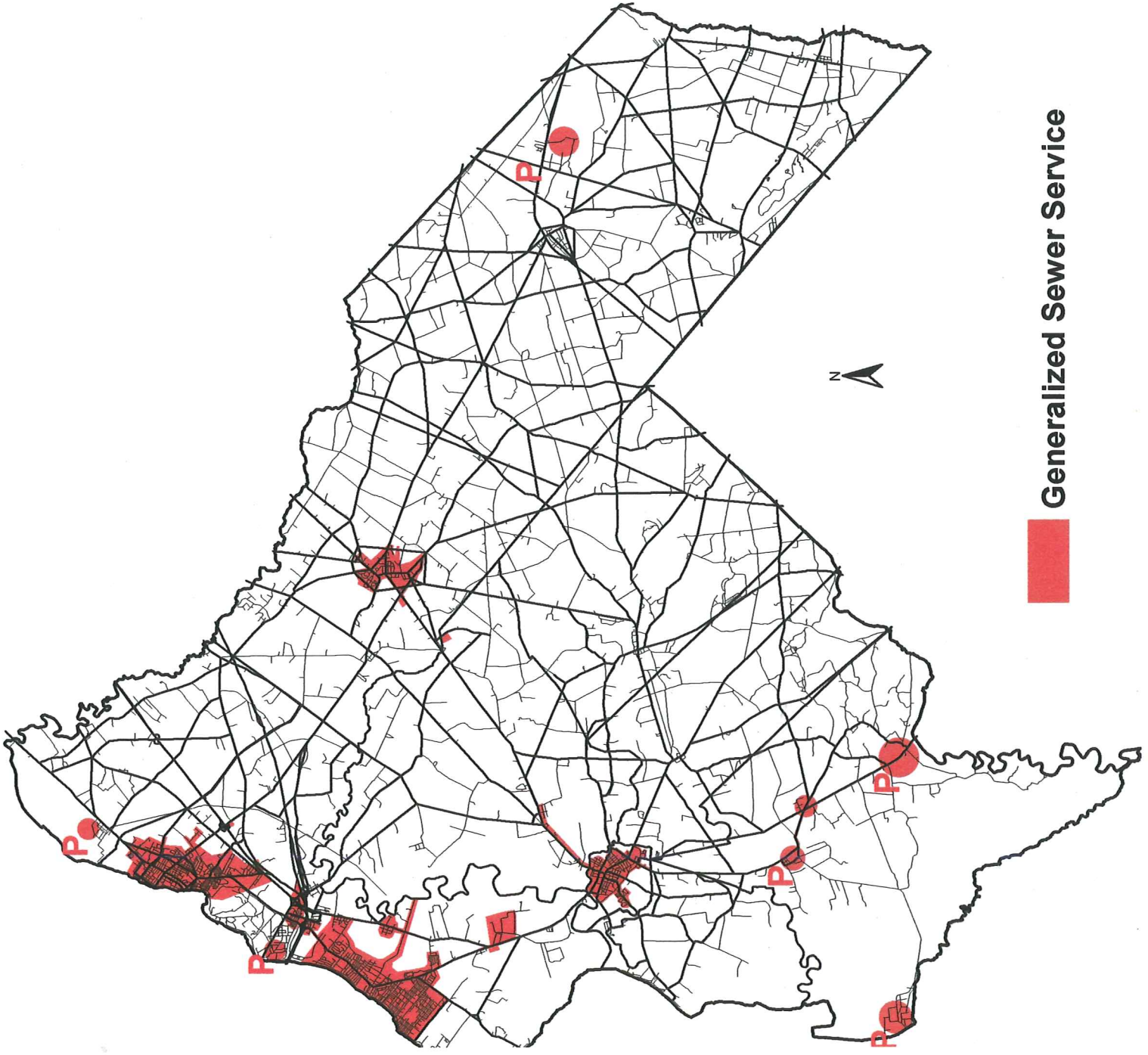


**MUNICIPALITIES
OF
SALEM COUNTY
NEW JERSEY**

Figure 5

**Generalized
Municipal Water Service
2000**

**Salem County,
New Jersey**



Generalized Sewer Service

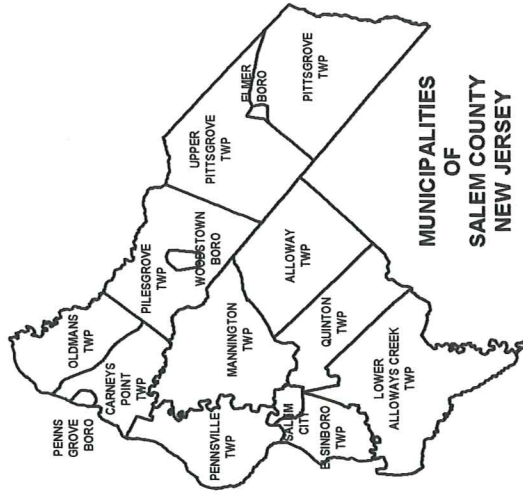


Figure 6

**Generalized
Municipal Sewer Service
2000**

**Salem County,
New Jersey**

**TABLE 2
WATER SERVICE SYSTEMS SALEM COUNTY, NJ**

Facility	Area Served	Total Capacity Yield (MGD)	Total Present Demand (MGD)	Number of Connections (Res.&Com)	Number of Wells	Well Location	Surface Source	Planned Expansion
Elmer (Municipal)	Elmer Borough	0.200	0.170	562	2	Broad St. State St.		
Penns Grove Water Co. (Private)	Penns Grove (All). Parts of Carneys Point & Oldmans Townships	3.204	1.424	4,304	7	Carneys Pt Twp.		2 New towers in conjunction with CP & Salem Co. Plus main extensions & replacements.
Pennsville (Municipal)	Developed areas of Township	2.600	1.600	4,730	8	Water St. Heron Ave. Tufts Rd.		12" Water main extension from Wal-Mart to Salem Bridge along Route 49
Salem City (Municipal)	Salem City & portions of Quinton & Mannington Townships	4.000 (1.0 wells, 3.0 surface)	2,000 (1.3 - 2.0)	2,700	2	Eastern Salem City	Laurel Lake & Elkinton Pond	
Woodstown (Municipal)	Entire Borough, plus 69 connections in Pilesgrove Twp. and 1 (prison) in Mannington	2.556	0.400	1,713	4	Folwell St. West Ave. E. Millbrook Avenue		
Auburn (Municipal)	Auburn Village	0.016 (.014-.016)	0.016 (.014-.016)	63	2 (1 in use)	At Auburn Firehouse		
	Total -	12.576	5.610	14,072.00	25			

Other Systems

Dupont	Dupont Industrial Properties	Dupont draws water from both the Delaware River and the Salem Canal. Using its own on-site water treatment facility, Dupont treats water for three separate uses: Industrial (filtering only), Fire (single chlorination process) and Potable (standard treatment).						
PSE+C3G	Artificial Island	Seven on-site wells (three of which are held for emergency purposes) provide potable and production process water. Water used for cooling purposes is drawn from the river.						

TABLE 3
SEWER SYSTEMS SALEM COUNTY, NJ

FACILITY	Area Served	Existing Capacity Ave. Flow (MGD)	Demand Present-Use (MGD)	Type of Treatment	Number of connections (Res.&Com.)	Plant Location	Year Built	Planned Expansion
Carneys Pt. (Municipal)	Developed Areas	1.300	0.600	Secondary (Tertiary available)	3,300	East St. at Cleveland	1961 1990 +	Planned expansion of Service area
Penns Grove (Municipal)	Borough only	0.750	0.600	Secondary-activated sludge	2,276	Beach St.	1955 1988 +	
Pennsville (Municipal)	Developed areas, & Chestnut Lane. area, Hollywood Vil. Area	1.875	1.300	Secondary	5,000	Delaware Ave	1955-66 1991 +	Replace clarifier Tank. Planned expansion of Service area
Salem City (Municipal)	Salem City, & part of Mannington along Rt. 45 to nursing home	1.400	0.700 to 0.800	Secondary	2,550	Front near Broadway	1952 1991 +	Planned extension of service to Quinton & Alloway Villages & areas along NJ 49
Woodstown (Municipal)	Entire Borough, plus 69 connections in adjacent portions of Pilesgrove Twp. & 1 in Mannington Twp (prison)	0.530	0.320	Activated Sludge/ Secondary & Tertiary	1,713	West Ave. at Salem Creek	1994	
Total -		5.855	3.520		14839.0			

Other Systems

LAC Township Package Plants					Total for both - 207			Note: Harmersville Plant dismantled in Feb. 2000
1. Canton		0.05	0.012			1990		
2. Hancocks Br.		0.023	0.023			1988		

Dupont System	Dupont Industrial Properties	Dupont has installed a system in which both waste water and industrial waste are filtered through a multi-step process. Liquid overflow from on-site septic tanks is treated at an on-site plant (including a fecal choliform process) at rates from 1000-5500 gal./minute, before being released into the river. Solid wastes are removed for processing at Penns Grove municipal waste treatment plant.					
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PSEG	Artificial Island Property	PSEG has a secondary sewerage treatment which employs an oxidation ditch with tertiary filtration. Although the capacity of the system is 0.70MGD, use averages 0.20-0.25MGD. It has operated since 1988.					
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Oldmans Twp.	DOD Facility	Package treatment plant serving the facility only. Some commercial uses in facility area, with plans to expand commercial use.					
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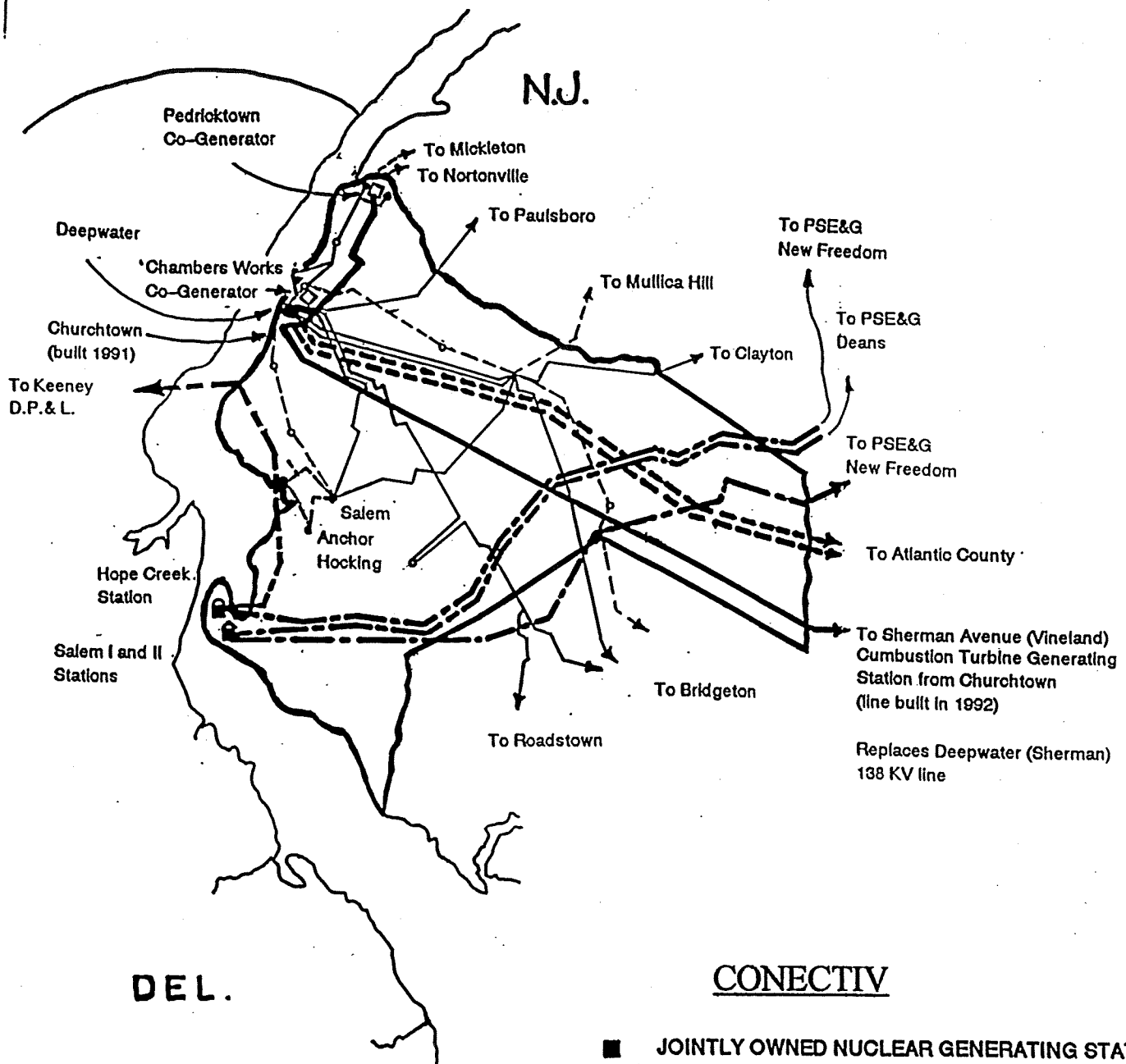


Figure 7

ELECTRIC TRANSMISSION LINES

CONECTIV

- JOINTLY OWNED NUCLEAR GENERATING STATION
 - STEAM ELECTRIC GENERATING STATION
 - ▲ COMBUSTION TURBINE GENERATING STATION
 - TRANSMISSION SUBSTATION
 - DISTRIBUTION SUBSTATION
 - NON-UTILITY GENERATION SWITCHING STATION
-
- TRANSMISSION LINES — 500 KV — JOINTLY USED
 - TRANSMISSION LINES — 230 KV
 - - - TRANSMISSION LINES — 138 KV
 - TRANSMISSION LINES — 69 KV
 - - - TRANSMISSION LINES — 34.5 KV AND 23 KV

Public Service Enterprise Group

The Artificial Island Energy Facilities are located in Lower Alloways Creek Township and consists of nuclear and fossil-fueled electric generating facilities and ancillary support equipment and structures on approximately 740 acres. The facilities are operated by PSEG Nuclear, LLC, a wholly owned subsidiary of Public Service Enterprise Group (PSEG). The facilities include Salem and Hope Creek Generating Stations, which are steam electric nuclear power plants that use nuclear fuel to generate electric energy. Salem Generating Station consists of two pressurized water nuclear reactors (Units 1 and 2). There is also a fossil-fueled 36 megawatt combustion turbine (Unit 3). Hope Creek Generating Station consists of a one boiling water nuclear reactor. Approximately one-third of PSEG's electric generating capability is located at Artificial Island.

South Jersey Gas Company

South Jersey Gas Company of Folsom, NJ, supplies Salem County with natural gas for fuel purposes. As of June, 2000, there were 7,340 customers in the County. Gas is not available in all portions of all municipalities, even though a major transmission line may be located there. Currently there are no customers in Alloway, Elsinboro, Lower Alloways Creek and Quinton Townships. Gas is supplied via major transmission lines (See Figure 8) that are connected to the Transcontinental Pipeline in northern Gloucester County.

3. Solid Waste Management

Prior to 1970, solid waste management was basically the responsibility of the municipalities. In 1970, the New Jersey State Solid Waste Management Plan concluded that this method of waste management is inadequate and potentially harmful to the environment and recommended that municipalities be joined together into solid waste management districts (and that the State adopt performance standards for the operation of collection and disposal facilities).

In response, Salem County prepared a Solid Waste Management Plan in 1980, selected a landfill site in Alloway Township, and appointed a County Utilities Authority and to oversee the operation of the facility. The 252 acre facility has been in operation since April, 1988, and is currently filled to approximately 50% of its capacity. The Utilities Authority has its own staff, including an executive director, a deputy director of recycling and support staff, to operate the landfill. By law, all municipalities must use this solid waste landfill.

Figure 9 shows the location of the County landfill, as well as several solid waste drop-off sites. To accommodate the residents of the respective municipalities, convenience drop-off stations are located in Salem City and in the Townships of Alloway, Pilesgrove, Pittsgrove, Upper Pittsgrove and Pennsville. Four municipalities in the County (Pittsgrove, Upper Pittsgrove, Pilesgrove and Alloway Townships) have no municipal curbside pickup service (i.e., a service run or contracted out by a municipality). Residents in these townships must either arrange for their trash removal with a private hauler or take their refuse to a drop-off station.

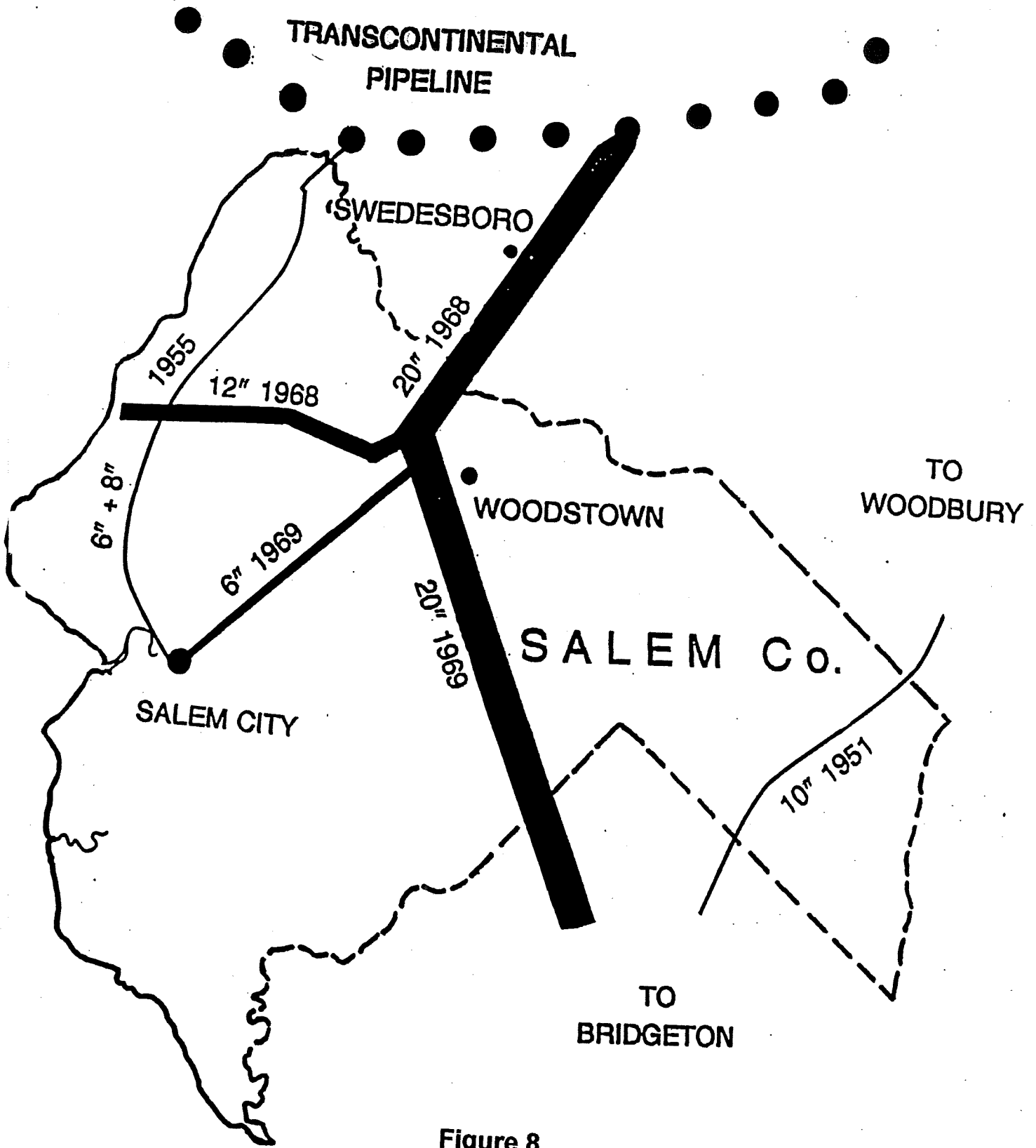
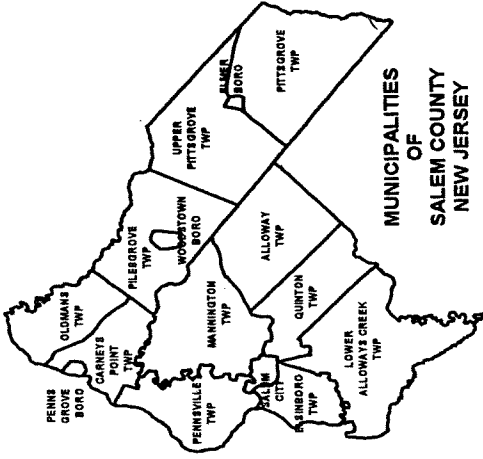


Figure 8

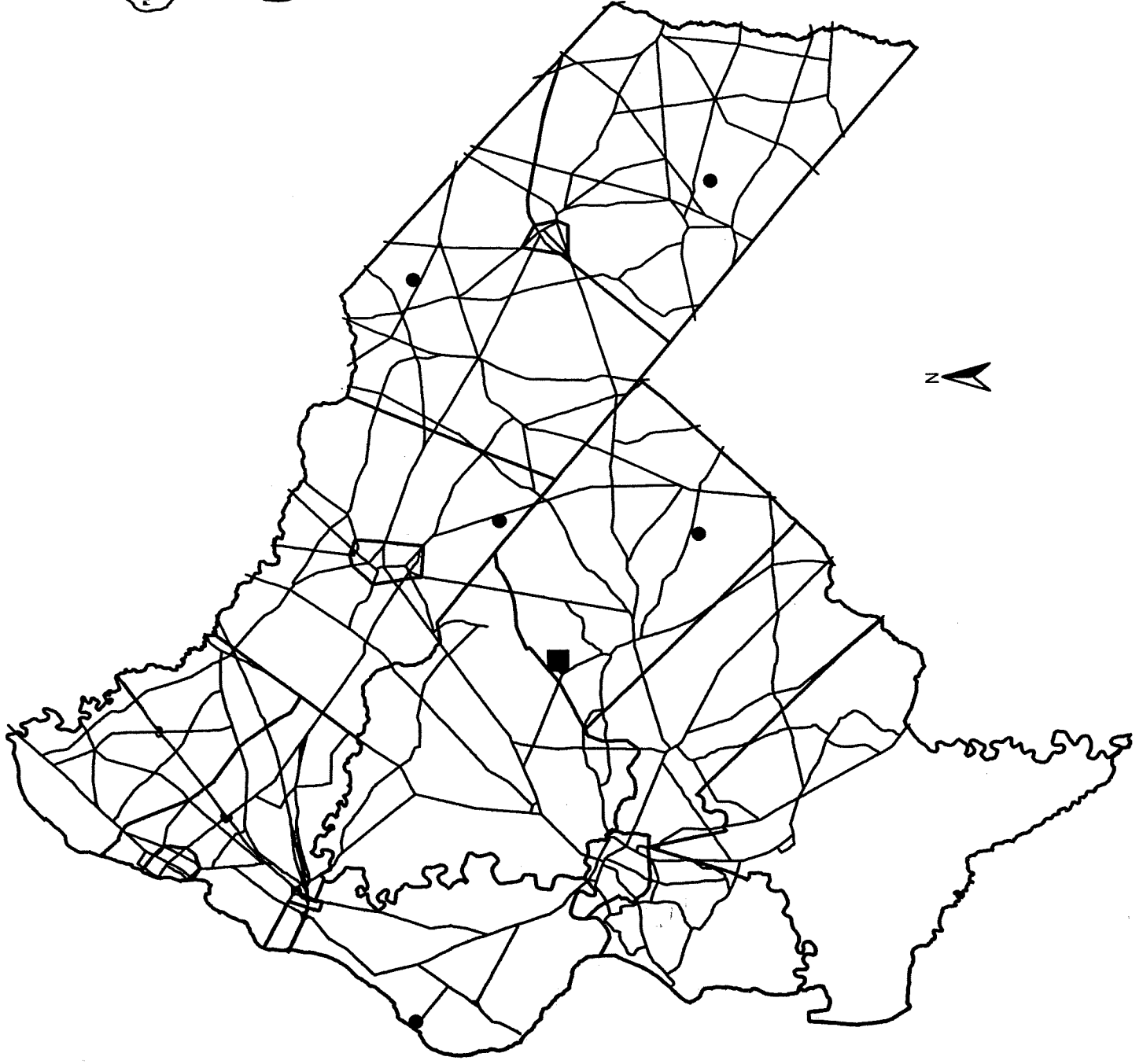
**SOUTH JERSEY GAS COMPANY
TRANSMISSION SYSTEM**



MUNICIPALITIES
OF
SALEM COUNTY
NEW JERSEY

Figure 9

Salem County Active Solid Waste Sites



- County Landfill Site
- Solid Waste Dropoff Site

**III. POLICE, FIRE AND EMERGENCY
SERVICES**

III. POLICE, FIRE AND EMERGENCY SERVICES

One of the most important services available to Salem County residents are those provided by the police, fire and rescue squads. Providing adequate coverage of these services throughout a sparsely developed county such as Salem can be difficult. Large areas of the County are often served by a few people in situations in which response time is critical. Due to the fact that many of the municipalities in Salem County cannot afford their own police forces or paid fire and rescue squads, they must rely on volunteers, shared personnel or help from outside agencies.

Salem City, Pennsville, Carneys Point, Penns Grove, Elmer and Woodstown each have their own police force which provides service only within the municipal boundaries, while the Lower Alloways Creek police department also serves Elsinboro Township. The remainder of the County is served by State Police. Alloway, Pilesgrove, Mannington, Oldmans, Quinton and Upper Pittsgrove Townships are covered by the Woodstown State Police barracks, while the Bridgeton State Police barracks provide police protection to Pittsgrove Township.

All firefighters in the County work on a volunteer basis. Pilesgrove and Woodstown share one fire department. Oldmans Township has fire companies at both Auburn and Pedricktown with shared coverage area. Similarly, Upper Pittsgrove Township has two companies, located in Monroeville and Daretown, while Pittsgrove Township has three companies located in Norma, Centerton and Willow Grove. Each of the other municipalities has its own fire companies.

As with the fire personnel, all rescue squad members are volunteer. Woodstown Ambulance covers Pilesgrove and parts of Upper Pittsgrove Townships. Elmer Ambulance provides service to Elmer Borough and parts of both Upper Pittsgrove and Pittsgrove Townships. The remaining portions of Pittsgrove are served by a rescue squad from Norma. All other municipalities provide their own rescue service.

In January 1993, Salem County initiated its 911 service throughout the County. The central receiving point or Public Safety Answering Point (PSAP) for incoming calls is located at the Emergency Services Building near Route 45 and County Route 679 outside of Woodstown.

Table 4 provides the number of police, fire and emergency management personnel and vehicles on a municipal basis, as of 2000.

TABLE 4
SALEM COUNTY EMERGENCY SERVICES

MUNICIPALITY	POLICE Personnel			FIRE		RESCUE	
	FULL TIME	PART-TIME	VEHICLES	PERSONNEL	VEHICLES	PERSONNEL	VEHICLES
Alloway		*		37	7	30	2
Carneys Point	18	0	10	52	6	52	3
Elmer	3	2	2	30	4	25	3
Elsinboro		**		20	4	10	1
LAC	12	0	7	52	6	20	2
Mannington		*		30	5	30	1
Oldmans		*		60	8	10	2
Penns Grove	15	4	4	35	4	20	1
Pennsville	31	12	11	100	10	27	2
Pilesgrove		*		#		#	
Pittsgrove		*		95	17	29	2
Quinton		*		40	4	15	2
Salem City	19	3	6	100	8	14	2
U. Pittsgrove		*		20	9	#	
Woodstown	7	1	3	42	6	27	4
TOTAL	105	22	43	713	98	309	27

* - Covered by State Police

** - Covered by LAC Police

- Other Shared System

NOTE: Fire and Rescue volunteer numbers are approximate

IV. OTHER SERVICES

IV. OTHER SERVICES

1. Education

In addition to the task of providing a public education program for over 12,000 students, Salem County school administrators must provide adequate facilities, trained staff and programs to meet the special needs of County residents. Tables 5 and 6 * provide a summary of the public school districts, regional high schools and facilities, as well as student enrollment and faculty employed.

In addition to the regular school districts, a special services district meets the needs of special education and multiple handicapped students, at both the Woodstown facility as well as in each of the other school districts. A Vocational Technical High School on Route 45 in Salem provides technical and vocational instruction to over 280 students from the entire County, on a "shared-time" basis. A regional day school also provides vocational instruction to approximately 83 special education students.

Adult education programs are available for County residents at the Adult Education Center on Route 45, while Salem Community College, located in Carneys Point, provides two-year college curricula leading to an Associate Degree.

Several private and parochial schools throughout Salem County provide an alternative to public education, ranging from preschool through 8th grade. Ranch Hope for Boys in Alloway and The Clement School for Exceptional Children in Carneys Point provide education for children with special needs.

2. Public Libraries

In Salem County there are five public municipal libraries. They are as follows:

- Elmer Public Library – Elmer Borough Hall
- Penns Grove-Carneys Point Library – Penns Grove Borough
- Pennsville Public Library – Pennsville Township
- Salem Free Public Library – Salem City
- Woodstown-Piles Grove Library – Woodstown Borough

Each provides residents with free services and lending of materials. Non-residents may usually use library services for a small annual fee. Salem County provides scheduled Free Book Mobile Service to residents who are unable to come to the library itself. This service is operated by the Salem County Library Commission. Because there is no County library in the County, the library at Salem Community College in Carneys Point serves as a repository for government documents and other information which must be available for public review. Salem County residents also have access to the Cumberland County Library in Bridgeton and may use their services for a nominal fee.

3. Recreation

There are several levels of recreational facilities including those which are used by members of an entire country, such as National Parks, those which are used by residents of the state, county or municipality in which they live and those very specialized areas which serve only a neighborhood for a particular housing development. This section will focus on those public facilities that are provided at the municipal, county and regional levels by various levels of government. Similarly, there are several levels of recreational needs, such as:

* Note: figure totals (particularly for students) in Tables 5 & 6 may not agree due to different sources and time frames

TABLE 5

PUBLIC SCHOOL FACILITIES SALEM COUNTY, NJ

District	School	Location	Grades	Number of			High School District
				Students (*4)	Faculty (*5)	Staff (*5)	
Alloway	Alloway Public	Cedar Street	PreK-8	454	38	32	Woodstown
Elmer	Elmer	Frant Street	K-6	140	12	4	Schalick
Elsinboro	Elsinboro Twp.	Ft. Elfsborg Road	K-8	127	12.5	5	Salem
LAC	LAC Public	Long Bridge Rd. & Rt. 623	PreK-8	215	32	23	Salem
Mannington	Mannington Twp.	Salem-Woodstown Rd.	PreK-8	204	20	37	Salem
Oldmans	Pedricktown Elem.	Railroad Avenue	K-3	105	12	7	CP/PG or Woodstown
	Oldmans Middle	Freed Road	4-8	111	12	4	
Penns Grove/ Cameys Point	Lafayette-Pershing	Shell Road, CP	K-1	362	32	11	self
	Field Street	Field St., PG	2-3	358	28	10.5	
	Paul W. Carlton	Maple Ave., PG	4-5	333	29	8.5	
	Penns Grove Middle	Maple Ave., PG	6-8	511	55	12	
	PG/CP High School	Harding Hwy., CP	9-12	702	66	12	
Pennsville	Central Park Elem.	Oliver Avenue	K-5	283	22	8	self
	Penn Beach Elem.	Kansas Road	K-5	332	27	9	
	Valley Park Elem.	Mahoney Road	K-5	381	31	15	
	Pennsville Middle	Wm. Penn Ave.	6-8	518	46	16	
	Pennsville High	Wm. Penn Ave.	9-12	680	62	20	
Pittsgrove	Norma Elem.	Gershal Ave.	K,SpEdK/1	135	8.2	7.2	self
	Olivet Elem.	Elmer-Centerton Rd.	1-4	493	34.5	10.5	
	Middle School	Almond Road	5-8	624	42.9	17	
	Schalick High	Buck Road	9-12	586.5	46.8	22.4	
Quinton	Quinton Twp.	Robinson Rd.	K-8	329	33	17	Salem
Salem City	Ferwick	New Market St.	K-4	501	46		self
	Salem Middle	New Market St.	5-8	398	42	73(*6)	
	Salem High	Walnut St.	9-12	487	44		
Upper Pittsgrove	U. Pitts. Twp.	Elmer-Pine Tavern Rd.	K-8	423	39	39	Woodstown
Woodstown/ Pilesgrove	Mary Shoemaker	E. Millbrooke Ave.	K-4	522	44	20	self
	Middle School	Lincoln Ave.	5-8	366	29	5	
	Woodstown High	East Ave.	9-12	765	66	24	
Special Services	Multiple Programs	228 S. Main St.	K-12	115	39	31	self
	Other (*1 & *2)	Woodstown, NJ 08098					
Vo-Tech Ed.	Vo-Tech Center/School	Rt. 45, Mannington (*3)		531	36	78	
Spec Ed/Voc.	Regional Day School, Special Ed., Vocational						
County Totals				12091.5	1086.9	505.1	

- Notes:
- *1-Additional students at other schools
 - *2-Serves County-wide ED and handicapped
 - *3-Students participate in Voc. Ed. on shared time basis
 - *4-as of 2/01
 - *5-Combined district-wide faculty and staff
 - *6-Combined district-wide staff

TABLE 6
PUPIL COUNT 2000-2001
 Provided by County Education Office

District	Pre	K	1	2	3	4	5	6	7	8	9	10	11	12	Class.	Total
Alloway	38	59	44	42	47	38	45	32	37	35	0	0	0	0	42	459
Elmer	0	14	19	15	19	20	16	20	0	0	0	0	0	0	9	132
Elsinboro	0	14	7	16	11	19	15	11	6	18	0	0	0	0	11	128
L.A.C.	23	18	22	13	25	27	18	12	24	19	0	0	0	0	11	212
Mannington	14	19	21	16	23	19	7	19	14	16	0	0	0	0	31	199
Oldmans	0	24	14	30	27	18	16	15	19	21	0	0	0	0	33	217
P.G.-C.P.	29	158	172	158	168	167	130	155	148	151	158	152	130	127	244.5	2246.5
Pennsville	0	161	126	156	123	156	147	147	152	131	137	145	128	117	260	2086
Pittsgrove	11	110	115	106	105	113	114	143	162	147	142	135	106	125	205	1838.5
Quinton	0	34	28	30	35	33	37	35	27	29	0	0	0	0	38	326
Salem City	50	102	105	104	74	68	63	56	61	59	128	133	104	78.5	214.5	1399.5
Special Services	0	0	0	0	0	0	0	1**	4**	4**	3**	4**	4**	9**	1 **	30
Upper Pittsgrove	0	35	38	42	42	45	35	38	48	37	0	0	0	0	65	425
Vocational	0	0	0	0	0	0	0	0	0	0	89**	38**	34**	39**	97.5	389-ST
Woodstown	46	75	93	76	82	98	59	99	86.5	82.5	178	162	158	139	83*	282-FT
Total	211	823	804	804	781	821	702	782	785	745.5	743	726	625	585	1495	11432

* Regional Day School

** Alternative Middle School and High School

Note: Shared time reflected in count as .5

Pre-School handicapped included as Special Education

Information Source for this Table : "Application for State School Aid"

- Active Recreational Areas which range from playgrounds to basketball courts and ball fields to boat launching ramps and fishing piers;
- Passive Recreational Areas which take advantage of both natural resources such as woodlands, lakes and ponds and of man-made landscaped open spaces for relaxing, sunbathing, picnicking or taking nature walks; and
- Conservation and Wildlife Management Areas that may be designed to protect endangered species or to allow for better management of fish and game hunting areas.

Although all segments of the population have recreational needs, the need is often greatest in densely populated urban and suburban communities where, in many cases, natural open space areas would not exist if they were not expressly provided for the benefit of the population. For the most part, municipalities assume the responsibility for satisfying community oriented recreational needs, although cities often provide parks and open space at a scale, which attracts residents from surrounding municipalities. The role of the State (and in some cases the County) has been to purchase and maintain large recreational areas containing attractive natural features such as lakes, wetlands and forested areas. Salem County is also part of the NJ Coastal Heritage Trail (Delsea Region). The Trail provides individuals with hiking, bird watching and scenic viewing. A Trail welcome center is located at Fort Mott State Park in Pennsville Township.

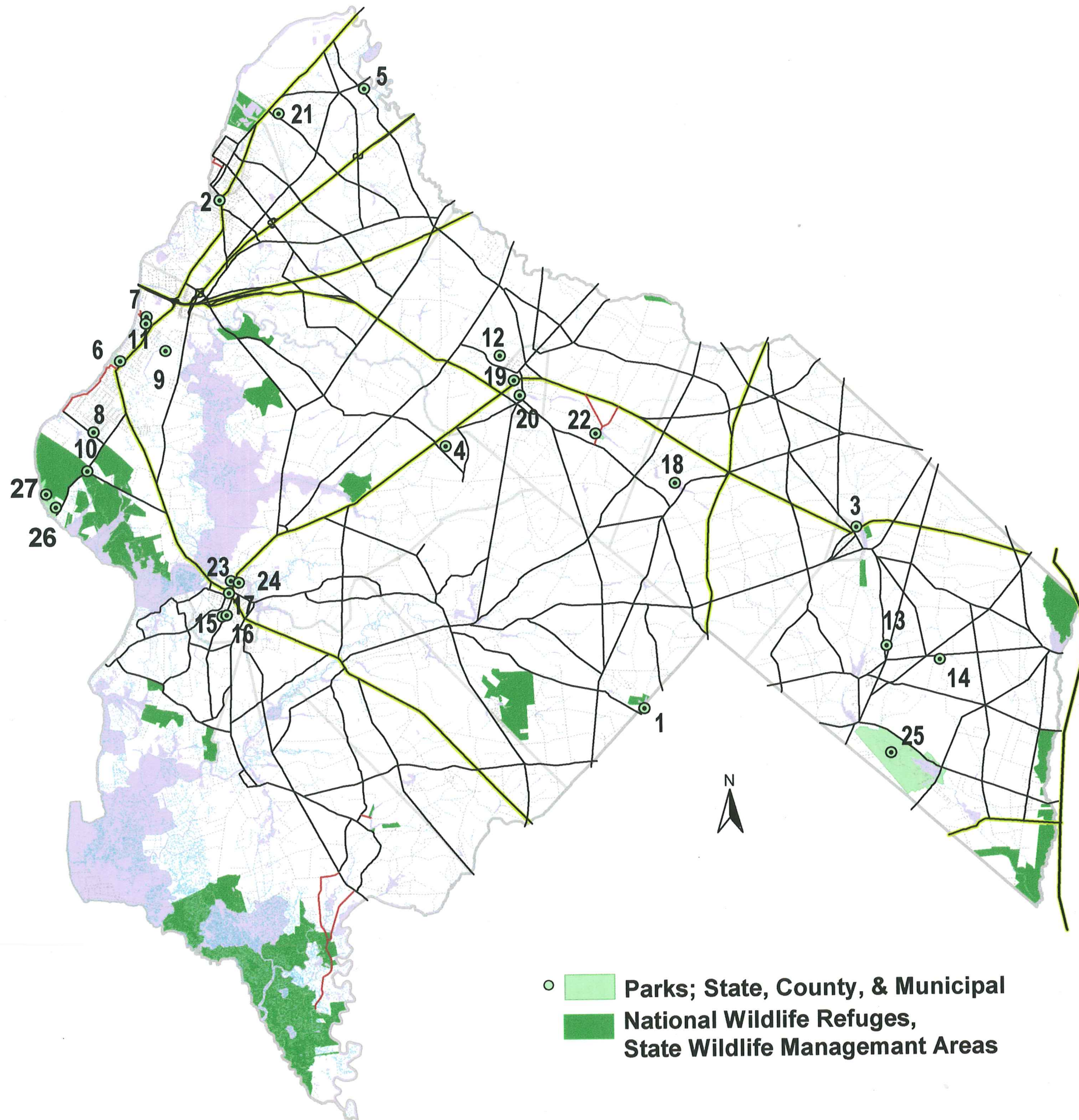
In Salem County, two State Parks provide recreational opportunities for a multi-county region. They are:

1. Parvin State Park, a 1,125 acre park in Pittsgrove Township that includes two lakes for fishing and boating, picnic and playground facilities, rental cabins and campsites, nature trails, baseball fields and a beach and swimming area.
2. Fort Mott State Park, a 57 acre tract adjacent to the Delaware River in Pennsville Township, which offers picnic facilities, a playground, open space, access to the river for fishing and crabbing, nature trails and access to the historical site of Fort Mott, Finns Point National Cemetery and Finns Point Lighthouse.

At the local level, several municipalities provide parks and recreational facilities for their citizens. A description of these parks can be found in Table 7 and their location can be seen in Figure 10. County residents can also utilize the private recreational facilities (such as swim clubs, golf courses and commercial campgrounds and marinas) which are located throughout the County.

In addition to the above-mentioned parks and recreational areas, both Federal and State wildlife areas provide large tract of protected land for conservation and observation of a wide variety of plants and animals, as well as wildlife management areas for fishing and hunting. Table 8 provides a list of such areas and their location can be seen in Figure 10.

Park & Recreation Areas



Parks; State, County, & Municipal
 National Wildlife Refuges, State Wildlife Management Areas

Code	Park	Municipality
1	Bostwick Lake	Alloway, Twp.
2	Dunn Park	Carneys Point Twp.
3	Elmer Park	Elmer Boro
4	Fenwick's Grove	Mannington Twp.
5	Alan Jones Park	Oldmans Twp.
6	Riverview Beach Park	Pennsville Twp.
7	Little League Field	Pennsville Twp.
8	Tuffs Road Complex	Pennsville Twp.
9	Soccer Field	Pennsville Twp.
10	Baseball Field	Pennsville Twp.
11	Franklin Playground	Pennsville Twp.
12	Harris Field / Marilton Field	Pilesgrove, Twp.
13	Deer Pen Park	Pittsgrove, Twp.
14	Green Brook Park	Pittsgrove, Twp.
15	City Park	Salem City
16	Community Center	Salem City
17	M. L. King Park	Salem City
18	Fox's Mill Park	Upper Pittsgrove, Twp.
19	Dickeson-Montaigne	Woodstown, Boro
20	Memorial Lake	Woodstown, Boro
21	County Recreation Field	Carneys Point, Twp.
22	Camp Crockett Co. Park	Pilesgrove Twp.
23	New Sweden Memorial	Salem City
24	Petersen Memorial	Salem City
25	Parvin State Park	Pittsgrove, Twp.
26	Fort Mott State Park	Pennsville Twp.
27	Finns Point National Cemetary	Pennsville Twp.

Prepared
 By
 Salem County
 Planning Board Staff

SALEM COUNTY CONSERVATION AND OPEN SPACE AREAS

TABLE 8

OWNER	LOCATION	SITE	ACRES
FEDERAL	PENNSVILLE	KILLCOHOOK NWR	35
	PENNSVILLE	SUPAWNA MEADOWS NWR	1,718
STATE	CARNEYS PT./OLDMANS	DOD PONDS WMA	320
	LAC	MAD HORSE CREEK WMA	5,826
	LAC	MASKELL'S MILL POND WMA	57
	LAC	HANCOCK HOUSE PARK	1
	MANNINGTON	MANN. MEADOWS WMA	202
	PILESGROVE	HARRISONVILLE LAKE WMA	22
	PITTSGROVE	UNION LAKE WMA	1,058
	PITTSGROVE	GREENWOOD PONDS WMA	57

<p>NWR - National Wildlife Refuge WMA - Wildlife Management Area</p>

4. Area Hospitals

The Memorial Hospital of Salem County

Located on Route 45 in Mannington Township, the Memorial Hospital of Salem County is a 152 bed facility which provides healthcare and related services for many Salem County residents. The hospital is a non-for-profit, tax-exempt facility that provides more than \$1.7 million in charity care to local residents each year. It is accredited by the Joint Commission on Accreditation of Healthcare Organizations. Originally built in 1950, many additions have been made to the hospital, including a pediatrics wing in 1979. During the 1980's, both a CT (radiology) wing and a two-story addition were added, in addition to renovations in the emergency room. In 1998, a freestanding ambulatory surgery center was constructed on the Hospital campus through a joint venture among independent physicians and the hospital. The facility, known as The Surgery Center of Salem County, L.L.C. serves between 250 to 300 persons each month.

Healthcare is provided by a medical staff of 118 physicians representing 30 medical specialties. There are 681 employees of which 462 are full-time. Services are available in medical-surgical inpatient care, inpatient and out patient surgery, intensive care/critical care; women's services including maternity, nursery, pediatrics; emergency services including treatment for radiation exposure, endoscopy; radiology including x-ray, fluoroscopy, CT, MRI, nuclear imaging, angiography, ultrasound, fluoroscopy, mammography; inpatient physical therapy; medical oncology; dialysis; cardio-pulmonary services including EEG/EMG, stress testing/echocardiography, vascular lab; wound treatment center; laboratory services including histology, microbiology, pathology, blood bank; occupational/industrial health and pain management. In addition, home health and hospice services; HIV-AIDS services; nutrition programs; social services, psychiatric emergency care; pharmacy; breast evaluation center, and a health start program.

During 2000, 4,910 people were admitted to the hospital. There were 381 births, 18,619 emergency room cases, 42,786 home health visits and 2,092 outpatient surgeries.

South Jersey Hospital - Elmer

Founded in 1950, Elmer Hospital, a 91bed facility, is located in Elmer Borough. In 1994, the South Jersey Hospital System included Elmer Hospital as its fourth hospital (joining Bridgeton, Newcomb and Millville). A medical staff of 350, including affiliated doctors, provide care for patients in both the medical-surgical unit and the Intensive Care Units. Outpatient facilities include laboratory services, radiological services including CAT-SCAN facilities, physical therapy, dietician consultation and cardio-pulmonary services. In 1988, a cardiac rehabilitation facility (Elmer Cardiac Performance Center) was opened and In December of 2000, a new operating room/intensive care unit was opened.

Elmer Community Hospital hosts a number of community healthcare programs, including Alcoholics Anonymous, Al-Anon, Weight Watchers, Lyme Disease Support Group and Better Breathers programs at the Cardiac Center. The hospital also administers an outbound voice-to-voice communications program to assist the elderly and disabled area residents in medical emergencies.

South Jersey Hospital System- Cumberland County Hospitals

Cumberland County is home to three hospitals within South Jersey Hospital System, which provide services for Salem County, particularly those who live in the southernmost portions of the County. The South Jersey Hospital System provides services ranging from wellness and prevention programs to diagnostic, medical, and surgical procedures. In addition, Cumberland County features an enhanced county-wide 911 emergency system.

- **South Jersey Hospital Newcomb** – is a 235 bed facility offering general and specialized services for inpatients and outpatients. The hospital's beds are devoted to medical/surgical floors, a pediatric pavilion, an obstetrics/gynecological unit, an intensive care unit, and a coronary unit.
- **South Jersey Hospital Bridgeton** – features three regionalized services within its 252 bed facility, including a Dialysis Center encompassing a 4,200 unit offering a 15 station treatment service for both outpatient Hemodialysis and Intermittent Dialysis.
- **South Jersey Hospital Millville** – offers a 144 bed facility, provides general and specialized services in both inpatient and outpatient settings, and maintains a wide range of services including general medical and surgical units, pediatrics care, and a critical care unit along with ancillary services.

The South Jersey Hospital System also features the South Jersey Regional Cancer Center, an affiliation of the South Jersey Hospital System and Fox Chase Cancer Center. This is the only cancer program in Cumberland, Salem and Gloucester County's to be recognized as a Community Hospital Comprehensive Cancer Program by the American College of Surgeons Commission on Cancer. This comprehensive cancer program provides chemotherapy, radiation therapy, specialized surgery, and clinical trials.

The location of hospitals within the Salem County Region can be seen in Figure 11 (Newcomb and Millville Hospitals are not shown).

