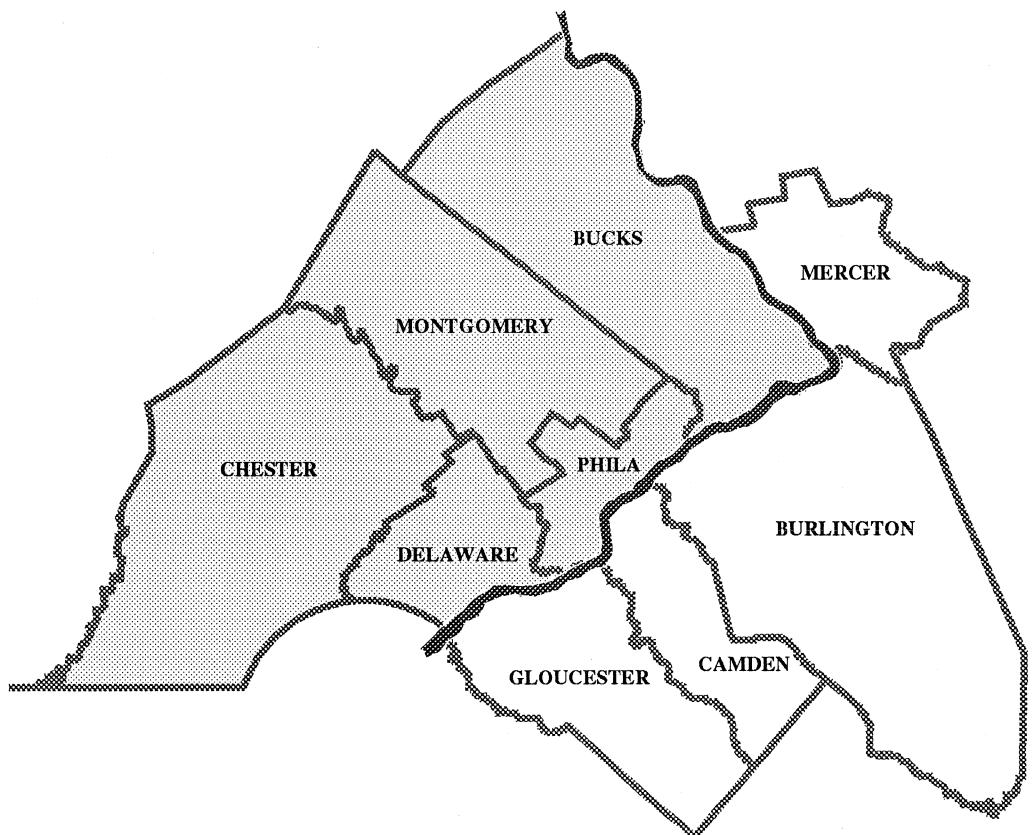


INVENTORY OF PUBLIC WATER AND SEWER FACILITIES IN SOUTHEASTERN PA



Prepared by:



**Delaware Valley Regional
Planning Commission**

June 1992

**INVENTORY OF PUBLIC WATER
AND SEWER FACILITIES
IN SOUTHEASTERN PENNSYLVANIA**



DELAWARE VALLEY REGIONAL PLANNING COMMISSION

**THE BOURSE
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JUNE 1992

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Created in 1965, the Delaware Valley Regional Planning Commission (DVRPC) is an interstate, intercounty and intercity agency which provides continuing, comprehensive and coordinated planning for the orderly growth and development of the Delaware Valley region. The region includes Bucks, Chester, Delaware, and Montgomery counties as well as the City of Philadelphia in Pennsylvania and Burlington, Camden, Gloucester, and Mercer counties in New Jersey. The Commission is an advisory agency which divides its planning and service functions between the Office of the Executive Director, the Office of Public Affairs, and three line Divisions: Transportation Planning, Regional Information Services Center, which includes Regional Planning Office, and Finance and Administration. DVRPC's mission for the 1990s is to emphasize technical assistance and services and to conduct high priority studies for member state and local governments, while determining and meeting the needs of the private sector.



The DVRPC logo is adapted from the official seal of the Commission and is designed as a stylized image of the Delaware Valley. The outer ring symbolizes the region as a whole while the diagonal bar signifies the Delaware River flowing through it. The two adjoining crescents represent the Commonwealth of Pennsylvania and the State of New Jersey. The logo combines these elements to depict the areas served by DVRPC.

DELAWARE VALLEY REGIONAL PLANNING COMMISSION

Publication Abstract

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|--|-----------------|-------|
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Inventory, public water and sewer facilities, municipalities served, permitted capacities, average daily flows, excess capacity, expansion plans.

ABSTRACT

Report provides inventory of all public water and sewer facilities including each facilities' capabilities in terms of average daily flows, permitted capacity and excess capacity. Report also includes maps of public water and sewer service areas by county at 1" to 4 miles. Individual maps must be requested separately from report. An inventory for southern New Jersey counties is also available in Publication #92023.

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INTRODUCTION

Public water and sewer systems are two of the most important infrastructure facilities in attracting growth and development. Without an adequate public water supply and sufficient sewage treatment capacity significant development cannot take place. In the Delaware Valley nine-county region, public water and sewer service is provided at the local level by over 300 private companies, municipal departments and authorities. Securing information on the service areas, capacities and operations of these facilities has been difficult for the planners, developers and engineers who require this information for both short and long-range planning. Although regulated by both state and federal agencies, comprehensive summary information on public water and sewer facilities has previously been unavailable.

The purpose of this report, therefore, is to identify and inventory each of these water and sewer facilities. For each county, a water and sewer inventory is included which identifies the following major elements for each facility:

1. municipalities served;
2. maximum capacity;
3. average daily flows;
4. excess capacity; and
5. expansion plans, if any.

Additionally, each county report includes two maps: one showing existing and proposed water service areas and the second showing existing and proposed sewer service areas. Each map is at the scale of 1" to 4 miles and can be reproduced in black and white or color.

INVENTORY USES

This water and sewer inventory has several important uses. First, the inventory will serve as a data base which can be easily updated at any point in time. This data base can be easily used by the public and private sectors to quickly ascertain the status of water and sewer facilities in a given area.

Second, this inventory will be useful to counties and municipalities during development proposal reviews and in capital facilities planning. For example, when a municipality reviews a development proposal, the inventory will allow the reviewer to determine if adequate public water and sewer facilities exist to support the development. If the facilities are inadequate, the municipality can negotiate with the developer for adequate facilities

and/or include improvements to the public water and sewer systems in future budgets and capital facilities programs. Municipalities can also use the inventories to revise their planning documents to channel growth into those areas that do have adequate facilities or to limit growth in areas without adequate infrastructure.

The water and sewer inventory will also be important to DVRPC's 2020 land use and transportation planning efforts. The DVRPC's 2020 Land Use Plan will identify potential growth areas in the region. The sewer and water inventory will be useful in identifying these areas and in determining if current or proposed facilities will be adequate to support forecasted growth in the year 2020.

SOURCE OF DATA

The data for the county water and sewer inventories and maps was gathered from a variety of sources as identified on each inventory and map. Each facility was initially identified by reviewing Pennsylvania Department of Environmental Resources (DER) and New Jersey Department of Environmental Protection and Energy (DEPE) computer records of each permitted facility in the nine-county region. Those facilities which service institutions, commercial, and industrial uses were not included in the study. Each county planning commission/department was then contacted to determine if they had a county-wide inventory. Amongst the nine counties, four had done sewer facility inventories, however they all needed to be updated and four had water facility inventories, three of which needed to be updated. The remaining counties had no water or sewer inventories available.

The next step was to contact each water and sewer facility operator in those counties with no or outdated inventories. The level of information varied tremendously from one operator to the next. In general, most operators were able to provide us with the inventory information we needed. However, the mapping information was harder to obtain. Most of the service area boundaries were obtained by examining maps showing the system's pipe locations or by the facility operator's description of service area boundaries. In some cases, the counties had maps which only required a minimum amount of updating. The sewer service area maps in Burlington, Camden, and Gloucester counties were obtained from the Tri-County Water Quality Management Board which updates its maps on an ongoing basis.

Although every attempt was made to accurately map service area boundaries, these maps should not be used as the sole source in determining if a specific site lies within a water or sewer service area. The local facility operator should always be contacted for this purpose. It is also important to remember that not only do water and sewer flows fluctuate daily, but they can change substantially if one or more new developments connect into the system. The local operators also indicated expansion plans, however in many cases the dates of future expansion was undecided, depending on future demand. Therefore, this data should be updated on a continual basis.

The inventory of public water and sewer facilities is provided by county and comprises the remainder of this report. Two reports are available: 1) one which inventories the facilities in the Pennsylvania counties of Bucks, Chester, Delaware, Montgomery and Philadelphia; and 2) one which inventories the facilities in the New Jersey counties of Burlington, Camden, Gloucester and Mercer. The service area maps which accompany this report must be requested from DVRPC separately.

INVENTORY OF PUBLIC WATER SUPPLY FACILITIES

The Federal Safe Drinking Water Act authorizes states to implement and enforce a public water supply program. These programs are designed to regulate the construction, operations and maintenance of all potable water systems. In Pennsylvania, these programs are administered by the Pennsylvania Department of Environmental Resources (DER). All water purveyors must receive permits from DER to operate water facilities and/or to withdraw water from groundwater or surface sources.

Although DER licenses these facilities, the Delaware River Basin Commission also has some regulatory authority in water diversions. The Delaware River Basin Commission (DRBC) has an adopted Water Resources Program which monitors and regulates the quality and quantity of water resources within the Delaware Basin (includes the entire nine-county region of the DVRPC).¹ One of the DRBC's program elements includes the investigation of water resource projects proposed by public and private entities. The DRBC Project Review Branch reviews applications for compliance with DRBC's policies and Comprehensive Plan. Projects reviewed by DRBC include those involving groundwater and/or surface water withdrawal, discharge to surface or groundwaters and regional wastewater treatment plants. The DRBC must issue permits for these projects along with the PADER.

Within the Pennsylvania portion of the DVRPC region, the DRBC has identified the Southeastern Pennsylvania Groundwater Protected Area as a problem area.

Southeastern Pennsylvania Groundwater Protected Area

In 1981, a special regulatory program was established by DRBC to control the overuse of groundwater in a 1,500 square mile region of Southeastern Pennsylvania. The protected area includes all of Montgomery County, 36 non-waterfront municipalities in Bucks County, 25 municipalities in southern and northern Chester County, three townships in eastern Berks County and one in southern Lehigh County.

The protected area designation subjects all new groundwater withdrawals averaging over 10,000 gallons per day (gpd) during any month to special regulations. Additionally, any existing withdrawal which is enlarged to 10,000 gpd or more is subject to the special regulations. The special regulations require applicants to submit to DRBC documented proof that the groundwater basin or aquifer will not be adversely impacted by the increased withdrawals.

¹Delaware River Basin Commission, *Water Resources Program 1990-1991*.

DEFINITION OF WATER SUPPLY DATA

Water Supplier/Municipalities Served

This column lists the name of the organization responsible for supplying the water to its customers and the municipalities within the water supplier's service area. As the service area maps show, although an entire municipality may be within a water supplier's service area, (known as a Franchise Area) only portions of that municipality may actually be supplied at the current time.

Domestic Population Served

This data represents the actual number of residents within the water supplier's service area who receive public water. Commercial, industrial and some institutional users are not included in this data. In some cases the domestic population may actually exceed the 1990 Census population for the municipalities within the water supplier's service area. This is due to the fact that many regional water suppliers may not be able to accurately separate domestic population by municipality or even county, since their metering systems may cross municipal and county boundaries.

Average Daily Water Use

This column represents the average daily amount of water supplied by the water supplier to its customers at the time the data was collected. This number can fluctuate widely depending on local conditions, such as time of the year, fire fighting emergencies, and the condition of the system. This data should always be updated when any water planning efforts are undertaken.

Supply Capacity

Although the PADER regulates maximum water diversions, maximum withdrawals actually depend upon the capabilities of the water supplier's equipment (supply capacity cannot be higher than the DEP permitted diversion). The quantity of water supplied cannot exceed the design capacity of the system's pumping equipment or treatment plant.

Excess Capacity

Typically a sewer or water system is said to be at capacity when 80% of its design capacity is reached. Therefore the excess capacity column is the difference between 80% of the system supply capacity and its average daily use. Since excess capacity is based on average daily use, it can fluctuate daily.

For the purposes of analyzing excess capacity, the water industry standard of 100 gallons of water per day should be used. Therefore, a three-person household requires 300 gallons of water a day. Using this approximation, a 100-unit residential subdivision requires approximately 30,000 gallons of water per day (.030 mgd).

BUCKS COUNTY WATER SUPPLY INVENTORY

Public water is supplied to approximately 456,000 persons or 84% of Bucks County's total population. Forty-six of the county's 54 municipalities are at least partially served by public water systems. The following municipalities rely on private wells as their only source of water.

| | | |
|--------------------|---------------------|--------------------------|
| Bridgeton Township | Nockamixon Township | Upper Makefield Township |
| Durham Township | Plumstead Township | Wrightstown Township |
| Haycock Township | Tinicum Township | |

Bucks County residents receive water from a combination of surface water and groundwater sources. Approximately 40% of all residents receive water from the county's 35 major groundwater supply systems, including 137 wells and 12 springs.

Additionally, most public water systems which rely primarily on surface water as their supply source also use wells to augment their system or for emergency back-up. Surface water sources in Bucks County include the Delaware River, Neshaminy Creek and man-made impoundments on the Ironworks Creek and Smoketown Creek.

Service Area

Most of the county approximately east of Route 232 has public water. Additionally, the older boroughs, including Doylestown, Chalfont, Perkasie and Quakertown receive public water. Several areas including the Newtown area, the Doylestown/Warrington area and Silverdale may be connected to a public water system in the future. Public water service (existing or future) is sporadic throughout the remainder of the county and almost non-existent north of Route 313.

The following table provides water supply information for all of Bucks County's 35 community water systems. As the table shows, most of the public water systems are small and service a limited number of municipalities. However, the county does have several large water suppliers, such as the Bucks County Water and Sewer Authority and the Lower Bucks County Joint Municipal Authority, who provide bulk water sales to several water suppliers. For this reason, several municipalities receive water from more than one supplier.

The data in the Bucks County Water Inventory was obtained by contacting each water purveyor directly, and is current as of February 1992. The list of purveyors was obtained from the Bucks County Planning Commission.²

²Bucks County Planning Commission, *Bucks County Water Supply Systems Inventory - 1990*, May 1991.

TABLE I
BUCKS COUNTY
INVENTORY OF PUBLIC WATER SUPPLY FACILITIES
1992

| WATER SYSTEM & Municipalities Served | DOMESTIC POPULATION SERVED | AVERAGE DAILY WATER USE (MGD) | SYSTEM SUPPLY CAPACITY (MGD) | EXCESS CAPACITY (MGD) |
|---|-------------------------------|----------------------------------|---------------------------------|--------------------------|
| BEDMINSTER TOWNSHIP AUTHORITY | 1,000 | 0.05 | 0.32 | 0.21 |
| Bedminster Township | | | | |
| BENSALEM TOWNSHIP MUNICIPAL AUTHORITY | 58,806 | 6.57 | n/a | n/a |
| Bensalem Township (part) | | | | |
| BRISTOL BOROUGH WATER AND SEWER AUTHORITY | 50,500 | 5.43 | 7.80 | 0.81 |
| Bensalem Township (part) | | | | |
| Bristol Borough | | | | |
| Bristol Township (part) | | | | |
| BRISTOL TOWNSHIP WATER AUTHORITY | 3,060 | 0.15 | 1.50 | 1.05 |
| Bristol Township | | | | |
| BUCKS COUNTY WATER AND SEWER AUTHORITY | 15,500 | 15.77 | 25.00 ¹ | 4.23 |
| Bensalem Township | | | | |
| Lower Southampton Township | | | | |
| Middletown Township | | | | |
| Newtown Borough | | | | |
| Newtown Township | | | | |
| Northampton Township | | | | |
| Lower Southampton Township | | | | |
| Solebury Township (part) | | | | |
| CHALFONT WATER DEPARTMENT | 5,000 | 0.48 | 1.07 | 0.38 |
| Chalfont Borough | | | | |
| New Britain Township | | | | |
| New Britain Borough | | | | |

| WATER SYSTEM & Municipalities Served | DOMESTIC POPULATION SERVED | AVERAGE DAILY WATER USE (MGD) | SYSTEM SUPPLY CAPACITY (MGD) | EXCESS CAPACITY (MGD) |
|--|-------------------------------|----------------------------------|---------------------------------|--------------------------|
| DOYLESTOWN BOROUGH WATER DEPARTMENT | 8,900 | 1.18 | 1.12 | 0.00 |
| Buckingham Township | | | | |
| Doylestown Borough | | | | |
| Doylestown Township (part) | | | | |
| DOYLESTOWN TOWNSHIP MUNICIPAL AUTHORITY | 3,000 | 0.12 | 0.57 | 0.34 |
| Doylestown Township (part) | | | | |
| DUBLIN BOROUGH WATER DEPARTMENT | 324 | 0.01 | 0.01 | 0.00 |
| Dublin Borough | | | | |
| FALLS TOWNSHIP WATER AUTHORITY | 24,130 | 1.94 | 5.58 | 2.52 |
| Bristol Township (part) | | | | |
| Falls Township (part) | | | | |
| HILLTOWN TOWNSHIP WATER AND SEWER AUTHORITY | 1,336 | 0.09 | 0.27 | 0.13 |
| Hilltown Township (part) | | | | |
| Silverdale Borough | | | | |
| LOWER BUCKS COUNTY JOINT MUNICIPAL AUTHORITY | 85,000 | 8.68 | 16.50 | 4.52 |
| Bristol Township (part) | | | | |
| Falls Township (part) | | | | |
| Middletown Township (part) | | | | |
| Tullytown Borough | | | | |
| MIDDLETOWN TOWNSHIP WATER DEPARTMENT | 30,000 | 2.12 | 7.72 | 4.06 |
| Hulmeville Borough | | | | |
| Langhorne Borough | | | | |
| Langhorne Manor Borough | | | | |
| Middletown Township (part) | | | | |
| Pennel Borough | | | | |
| MILFORD TOWNSHIP WATER AUTHORITY | 660 | 0.02 | 0.04 | 0.01 |
| Milford Township | | | | |
| MORRISVILLE BOROUGH WATER DEPARTMENT | 12,000 | 2.02 | 2.02 | 0.00 |
| Falls Township (part) | | | | |
| Lower Makefield Township | | | | |
| Morrisville Borough | | | | |

| WATER SYSTEM & Municipalities Served | DOMESTIC POPULATION SERVED | AVERAGE DAILY WATER USE (MGD) | SYSTEM SUPPLY CAPACITY (MGD) | EXCESS CAPACITY (MGD) |
|---|-------------------------------|----------------------------------|---------------------------------|--------------------------|
| NEWTOWN ARTESIAN/INDIAN ROCK WATER COMPANY Middletown Township (part) Newtown Borough | n/a | n/a | 1.48 | n/a |
| NORTH PENN WATER AUTHORITY East Rockhill Township Hilltown Township (part) New Britain Borough and New Britain Township (part) | 1,351 | 0.14 0.02 0.01 | 0.73 0.10 0.14 | 0.44 |
| NORTHAMPTON MUNICIPAL AUTHORITY Northampton Township | 27,750 | 2.15 | 4.15 | 1.17 |
| PENNSYLVANIA AMERICAN WATER COMPANY Falls Township (part) Lower Makefield Township Yardley Borough | 27,500 | 2.43 | 4.90 | 1.49 |
| PERKASIE BOROUGH AUTHORITY Perkasie Borough East Rockhill Township | 5,700 | 0.62 | 0.88 | 0.08 |
| QUAKERIOWN BOROUGH WATER DEPARTMENT Quakeriown Borough Richland Township (part) | 10,750 | 1.32 | 1.98 | 0.26 |
| RICHLAND TOWNSHIP WATER DEPARTMENT Richland Township (part) RICHLANDTOWN WATER DEPARTMENT Richlandtown Borough | 20 | 0.002 | n/a | n/a |
| RIEGELSVILLE BOROUGH WATER COMPANY Riegelsville Borough | 1,180 | 0.10 | 0.49 | 0.29 |
| SELLERSVILLE BOROUGH MUNICIPAL WATER WORKS Sellersville Borough West Rockhill Township (part) | 985 | 0.04 | 0.29 | 0.19 |
| SPRINGFIELD TOWNSHIP AUTHORITY Springfield Township | 4,200 | 0.53 | 1.30 | 0.51 |
| | 600 | 0.04 | 1.14 | 0.87 |

BUCKS WATER-III

| WATER SYSTEM & Municipalities Served | DOMESTIC POPULATION SERVED | AVERAGE DAILY WATER USE (MGD) | SYSTEM SUPPLY CAPACITY (MGD) | EXCESS CAPACITY (MGD) |
|---|-------------------------------|----------------------------------|---------------------------------|--------------------------|
| TELFORD BOROUGH AUTHORITY | 5,018 | 0.44 | 1.80 | 1.00 |
| Hilltown Township (part) | | | | |
| Telford Borough | | | | |
| West Rockhill Township | 995 | 0.80 | 0.46 | 0.00 |
| TRUMBAUERSVILLE WATER DEPARTMENT | | | | |
| Milford Township (part) | | | | |
| Trumbauersville Borough | n/a | 0.07 | 0.14 | 0.04 |
| VILLAGE II | | | | |
| New Hope Borough | | | | |
| UPPER SOUTHAMPTON MUNICIPAL WATER AUTHORITY | 13,800 | 1.58 | 3.14 | 0.93 |
| Upper Southampton Township | | | | |
| WARMINSTER HEIGHTS WATER COMPANY | 2,500 | 0.18 | 0.18 | 0.00 |
| Warminster Township (part) | | | | |
| WARMINSTER TOWNSHIP MUNICIPAL AUTHORITY | 40,000 | 2.91 | 7.08 | 2.75 |
| Kyland Borough | | | | |
| Warwick Township (part) | | | | |
| Warminster Township (part) | | | | |
| WARRINGTON TOWNSHIP MUNICIPAL AUTHORITY | 9,661 | 0.78 | 0.89 | 0.00 |
| Warrington Township | | | | |
| WARWICK TOWNSHIP MUNICIPAL AUTHORITY | n/a | 0.19 | n/a | n/a |
| Warwick Township (part) | | | | |
| TOTAL | 457,226 | 59.09 | 101.28 | 28.28 |

¹Supplies water bought in bulk from City of Philadelphia Water Department. Contract with City is for 25 mgd.

²Seventy connections, not persons.

SOURCE: BUCKS COUNTY PLANNING COMMISSION, WATER SUPPLY SYSTEMS INVENTORY 1990, MAY 1991; BUCKS COUNTY WATER AND SEWER AUTHORITY, SPRING 1992.



DELAWARE VALLEY REGIONAL PLANNING COMMISSION, JUNE 1992

BUCKS WATER-IV

CHESTER COUNTY WATER SUPPLY INVENTORY

Unlike the other Pennsylvania counties in the DVRPC region, Chester County's public water systems consist primarily of small private companies which were designed to service a specific residential development. The county's 1991 inventory includes 99 community systems, of which 58 have less than 100 service connections.³ Most of these facilities were designed to service specific developments and probably cannot be expanded. It is anticipated that, as the county continues to develop, larger water suppliers will purchase the smaller companies and provide more regional-type service.

Most of the county's public water purveyors rely on wells as their sole source of water. A few of the larger purveyors also receive water from surface sources such as the Octorara Creek and Susquehanna River.

The County inventory is based on each water purveyor's Annual Water Supply Report (AWSR) which must be submitted to DER. The DER does not require the AWSR to include data on population served or data which would allow calculation of excess capacity.

Based on the AWSR, only 67 of Chester County's 73 municipalities are at least partially served by a public water system. The eight municipalities which have no service are:

| | | |
|-------------------------|---------------------|---------------------------|
| Elk Township | Modena Borough | Upper Oxford Township |
| London Britain Township | New London Township | West Marlborough Township |

Service Area

The map which accompanies the Chester County Water Facilities Inventory does not differentiate between areas of the county which currently have public water service and those that may be served in the future. The map shows "service area/franchise boundary." The franchise boundary designates the area in which the water purveyor is legally allowed to supply water; this service may or may not currently exist. As the accompanying map shows, primarily only the eastern section of the county is included within a service area/franchise boundary.

³Chester County Planning Commission, *Water Facilities Inventory 1991*, May 1992.

TABLE II
CHESTER COUNTY
INVENTORY OF PUBLIC WATER SUPPLY FACILITIES
1992

| WATER SYSTEM ¹ & Municipalities Served | DOMESTIC POPULATION SERVED | AVERAGE DAILY WATER USE (MGD) | SYSTEM SUPPLY CAPACITY (MGD) | EXCESS CAPACITY (MGD) |
|--|-------------------------------|----------------------------------|---------------------------------|--------------------------|
| APPLEVILLE WATER SYSTEM | 362 | 0.03 | n/a | n/a |
| West Bradford Township (part) | | | | |
| ATGLEN BOROUGH WATER SYSTEM | 824 | 0.09 | n/a | n/a |
| Atgleen Borough | | | | |
| AVONDALE BOROUGH WATER SYSTEM | 954 | 0.12 | n/a | n/a |
| Avondale Borough | | | | |
| London Grove Township (part) | n/a | 0.01 | n/a | n/a |
| AVONWHEELS WATER SYSTEM | | | | |
| London Grove Township (part) | | | | |
| B & E WATER SYSTEM | 546 | 0.03 | 0.13 | 0.07 |
| West Bradford Township (part) | | | | |
| BEVERSREDE WATER SYSTEM | 315 | 0.03 | n/a | n/a |
| East Marlborough Township (part) | | | | |
| Poconson Township (part) | | | | |
| BRANDYWINE TERRACE WATER SYSTEM | 41 | 0.001 | n/a | n/a |
| Honey Brook Township (part) | | | | |
| BRANDYWINE WATER SYSTEM | | | | |
| Cain Township (part) | 597 | 0.04 | 0.10 | 0.04 |
| East Brandywine Township (part) | | | | |
| CALN MOBILE HOME PARK WATER SYSTEM | 40 | 0.002 | n/a | n/a |
| Cain Township (part) | | | | |
| CAMPHILL VILLAGE WATER SYSTEM | 65 | 0.01 | n/a | n/a |
| West Vincent Township | | | | |
| CARRIAGE CREST WATER SYSTEM | 15 | 0.003 | 0.15 | 0.12 |
| East Fallowfield Township | | | | |
| CHATAM ACRES NURSING HOME WATER SYSTEM | 120 | 0.01 | n/a | n/a |
| London Grove Township (part) | | | | |
| CHATWOOD WATER SYSTEM | 300 | 0.02 | n/a | n/a |
| West Goshen Township | | | | |

CHESTER WATER-I

| WATER SYSTEM ¹ & Municipalities Served | DOMESTIC POPULATION | AVERAGE DAILY WATER USE (MGD) | SYSTEM SUPPLY CAPACITY (MGD) | EXCESSS CAPACITY (MGD) |
|--|------------------------|----------------------------------|---------------------------------|---------------------------|
| CHESTER WATER AUTHORITY ² CHESTER COUNTY PORTION | 107,100 5,355 | 33.16 1.66 | 85.00 | 36.23 |
| East Nottingham Township (part) | | | | n/a |
| Kennet Township | | | | n/a |
| Lower Oxford Township | | | | n/a |
| Pennsbury Township | 250 | 0.02 | n/a | n/a |
| CHURCH FARM SCHOOL WATER SYSTEM | | | | |
| West Whiteland Township (part) | | | | |
| CITIZENS HOME UTILITIES WATER SYSTEM | n/a | n/a | n/a | n/a |
| East Pikeland Township (part) | | | | |
| East Vincent Township (part) | | | | |
| Spring City Borough | 24,973 | 4.43 | n/a | n/a |
| CITY OF COATESVILLE AUTHORITY | | | | |
| Atglen Borough | | | | |
| Caln Township (part) | | | | |
| City of Coatesville | | | | |
| East Fallowfield Township (part) | | | | |
| Parkeburg Borough | | | | |
| Sadsbury Township (part) | | | | |
| South Coatesville Borough | | | | |
| West Cain Township (part) | | | | |
| West Sadsbury Township | 700 | 0.02 | 0.04 | 0.01 |
| COMMISSIONERS OF CHESCO-POCOPSON NURSING HOME | | | | |
| Pocopson Township (part) | | | | |
| COMMUNITY WATER SYSTEM | 86 | n/a | n/a | n/a |
| Elverson Borough | | | | |
| West Nantmeal Township (part) | | | | |
| COVENTRY MANOR NURSING HOME WATER SYSTEM | 65 | 0.002 | n/a | n/a |
| South Coventry Township | 217 | 0.02 | 0.58 | 0.44 |
| COVENTRY TERRACE MOBILE HOME PARK WATER | | | | |
| East Coventry Township (part) | | | | |
| CUPOLA COURTS WATER SYSTEM | 58 | n/a | n/a | n/a |
| Honey Brook Township (part) | | | | |

| WATER SYSTEM ¹ & Municipalities Served | DOMESTIC POPULATION SERVED | AVERAGE DAILY WATER USE (MGD) | SYSTEM SUPPLY CAPACITY (MGD) | EXCESSS CAPACITY (MGD) |
|--|-------------------------------|----------------------------------|---------------------------------|---------------------------|
| DEERFIELD KNOLL WATER SYSTEM Willistown Township (part) | 260 | 0.02 | n/a | n/a |
| DEVEREUX FOUNDATION-GLEN MOORE WATER Wallace Township | n/a | 0.02 | n/a | n/a |
| DOWNTOWN INDUSTRIAL & AGRICULTURAL SCHOOL East Brandywine Township (part) | 140 | 0.01 | n/a | n/a |
| DOWNTOWN WATER SYSTEM Cahn Township (part) | 8,300 | 1.25 | n/a | n/a |
| Downingtown Borough | | | | |
| East Cahn Township (part) | | | | |
| West Bradford Township (part) | 70 | 0.004 | 0.01 | 0.004 |
| DOWNSTATE SYSTEM East Nantmeal Township (part) | 35 | 0.002 | n/a | n/a |
| ECHO VALLEY VILLAGE WATER East Nottingham Township (part) | n/a | 0.11 | 0.40 | 0.21 |
| EMBREEVILLE HOSPITAL WATER Newlin Township | n/a | 0.004 | 0.007 | 0.002 |
| FOX KNOLL WATER SYSTEM East Pikeland Township (part) | 76 | 0.02 | 0.04 | 0.01 |
| FRANKLIN WATER SYSTEM Franklin Township | 90 | 0.004 | n/a | n/a |
| FREMONT FARMS WEST WATER West Nottingham Township (part) | 581 | 0.04 | 0.15 | 0.08 |
| FRIENDSHIP WATER SYSTEM West Brandywine Township (part) | 30 | 0.003 | n/a | n/a |
| GLENVIEW MOBILE HOME PARK WATER SYSTEM Uwchlan Township (part) | | | | |
| GOLF CLUB APTS WATER SYSTEM West Goshen Township (part) | 968 | 0.06 | n/a | n/a |
| GREGORY COURTS WATER SYSTEM Honey Brook Township (part) | 90 | 0.01 | n/a | n/a |
| HICKORY HOUSE WATER SYSTEM Honey Brook Township (part) | 150 | 0.01 | n/a | n/a |

| WATER SYSTEM ¹ & Municipalities Served | DOMESTIC POPULATION SERVED | AVERAGE DAILY WATER USE (MGD) | SYSTEM SUPPLY CAPACITY (MGD) | EXCESSS CAPACITY (MGD) |
|--|-------------------------------|----------------------------------|---------------------------------|---------------------------|
| HIDEWAY MOBILE HOME PARK WATER SYSTEM West Cain Township (part) | 148 | 0.01 | n/a | n/a |
| HIGHLAND COURT MOBILE HOME PARK WATER Highland Township | 72 | 0.004 | n/a | n/a |
| HILLTOP MOBILE HOME PARK WATER SYSTEM East Fallowfield Township (part) | 270 | 0.02 | n/a | n/a |
| HONEY BROOK BOROUGH WATER AUTHORITY Honey Brook Borough | 1,550 | 0.19 | 0.27 | 0.03 |
| ICEDALE MOBILE HOME PARK WATER SYSTEM Honey Brook Township (part) | n/a | 0.02 | n/a | n/a |
| IMPERIAL MOBILE HOME PARK WATER SYSTEM West Cain Township (part) | n/a | 0.01 | n/a | n/a |
| INDIAN RUN VILLAGE MOBILE HOME PARK WATER West Brandywine Township (part) | 750 | 0.04 | n/a | n/a |
| IVY HILL WATER SYSTEM Willistown Township (part) | 46 | 0.004 | 0.01 | 0.004 |
| KENDAL CROSSLANDS WATER SYSTEM Kennett Township (part) | 36 | n/a | n/a | n/a |
| KENNETH SQUARE BOROUGH WATER East Marlborough Township (part) | 6,032 | 0.70 | n/a | n/a |
| Kennett Square Borough (part) Kennett Township (part) | | | | |
| KEYSTONE MOBILE HOME PARK WATER SYSTEM Honey Brook Township (part) | 45 | 0.01 | 0.01 | 0.00 |
| KIMBERWICK DEVELOPMENT East Brandywine Township (part) | 200 | 0.01 | 0.04 | 0.02 |
| KUNKELS MOBILE HOME PARK WATER SYSTEM London Grove Township (part) | 52 | 0.004 | n/a | n/a |
| LANDENBERG MANOR WATER SYSTEM New Garden Township (part) | 143 | 0.01 | n/a | n/a |

| WATER SYSTEM ¹ & Municipalities Served | DOMESTIC POPULATION SERVED | AVERAGE DAILY WATER USE (MGD) | SYSTEM SUPPLY CAPACITY (MGD) | EXCESSS CAPACITY (MGD) |
|---|-------------------------------|----------------------------------|---------------------------------|---------------------------|
| LAZY ACRES MOBILE HOME PARK WATER SYSTEM Honey Brook Township (part) | 97 | 0.01 | n/a | n/a |
| LINCOLN CREST MOBILE HOME PARK WATER SYSTEM Sadsbury Township (part) | 148 | 0.02 | n/a | n/a |
| LITTLE WASHINGTON WATER SYSTEM East Brandywine Township (part) | 1,152 | 0.07 | 0.30 | 0.17 |
| LOAGS CORNER MOBILE HOME PARK WATER SYSTEM West Nantmeal Township (part) | 125 | 0.01 | n/a | n/a |
| LOCUST KNOLL WATER SYSTEM East Brandywine Township (part) | 388 | 0.03 | 0.07 | 0.03 |
| LONDON GROVE TOWNSHIP WATER SYSTEM London Grove Township (part) | 1,500 | 0.07 | n/a | n/a |
| LONDONDERRY COURT MOBILE HOME PARK WATER SYSTEM Londonderry Township | 125 | 0.01 | n/a | n/a |
| LONGWOOD GARDENS WATER SYSTEM East Marlborough Township (part) | 410 | 0.08 | 0.32 | 0.18 |
| ELIZABETH MAIN MOBILE HOME PARK WATER SYSTEM East Nottingham Township (part) | 87 | n/a | n/a | n/a |
| MALVERN BOROUGH WATER SYSTEM Malvern Borough | 3,100 | 0.35 | n/a | n/a |
| MALVERN COURTS WATER SYSTEM East Whiteland Township (part) | 220 | 0.02 | n/a | n/a |
| MAPLEWOOD MOBILE HOME PARK WATER SYSTEM West Caln Township (part) | n/a | 0.003 | n/a | n/a |
| MARSHALLTON MANOR WATER SYSTEM West Bradford Township (part) | 163 | 0.01 | n/a | n/a |
| MARTINS MOBILE HOME VILLAGE WATER SYSTEM West Nottingham Township (part) | 114 | 0.01 | n/a | n/a |
| MERLIN HILLS WATER SYSTEM East Pikeland Township (part) | 313 | 0.02 | 0.22 | 0.18 |
| MOUNT IDY WATER SYSTEM East Brandywine Township (part) | 73 | 0.01 | n/a | n/a |

| WATER SYSTEM ¹ & Municipalities Served | DOMESTIC POPULATION SERVED | AVERAGE DAILY WATER USE (MGD) | SYSTEM SUPPLY CAPACITY (MGD) | EXCESSS CAPACITY (MGD) |
|--|-------------------------------|----------------------------------|---------------------------------|---------------------------|
| NICHOLS MOBILE HOME PARK WATER SYSTEM Schulykill Township (part) | 27 | 0.002 | n/a | n/a |
| NOTTINGHAM MANOR MOBILE HOME PARK WATER West Nottingham Township (part) | n/a | n/a | n/a | n/a |
| OXFORD BOROUGH WATER SYSTEM East Nottingham Township (part) | 4,000 | 0.37 | 0.43 | 0.00 |
| Lower Oxford Township (part) | | | | |
| Oxford Borough | | | | |
| OXFORD VILLAGE MOBILE HOME PARK WATER Penn Township (part) | 400 | 0.03 | n/a | n/a |
| PHILADELPHIA SUBURBAN WATER COMPANY ³ CHESTER COUNTY PORTION | 830,000 89,000 | 71.62 9.54 | 110.05 n/a | 16.42 n/a |
| Birmingham Township | | | | |
| CharlesTown Township | | | | |
| East Bradford Township | | | | |
| East Goshen Township | | | | |
| East Whiteland Township (part) | | | | |
| Easttown Township | | | | |
| Schuylkill Township (part) | | | | |
| Thornbury Township | | | | |
| Tredyffrin Township | | | | |
| West Goshen Township (part) | | | | |
| West Whiteland Township (part) | | | | |
| Westtown Township (part) | | | | |
| Willistown Township | | | | |
| PHOENIX MOBILE HOME PARK WATER SYSTEM East Pikeland Township (part) | 125 | 0.02 | 0.03 | 0.00 |
| PHOENIX MHP WATER SYSTEM #2 East Pikeland Township (part) | 46 | 0.01 | 0.01 | 0.00 |

| WATER SYSTEM ¹ & Municipalities Served | DOMESTIC POPULATION SERVED | AVERAGE DAILY WATER USE (MGD) | SYSTEM SUPPLY CAPACITY (MGD) | EXCESSS CAPACITY (MGD) |
|---|-------------------------------|----------------------------------|---------------------------------|---------------------------|
| PHOENIXVILLE WATER SYSTEM East Pikeland Township (part) Phoenixville Borough Schuykill Township (part) | 22,000 | 3.00 | n/a | n/a |
| CHESTER COUNTY PRISON (part) Pocopson Township (part) | 676 | 0.08 | 0.14 | 0.03 |
| RAQUET CLUB APARTMENTS WATER SYSTEM West Goshen Township (part) | n/a | 0.01 | n/a | n/a |
| SOUTHEASTERN CHESTER COUNTY AUTHORITY New Garden Township (part) | 1,000 | 0.23 | n/a | n/a |
| SOUTHEASTERN PENNSYLVANIA VETRANS CENTER WATER SYSTEM East Vincent Township (part) | 200 | 0.08 | n/a | n/a |
| SHADY GROVE MOBILE HOME PARK WATER SYSTEM West Fallowfield Township | 94 | 0.01 | n/a | n/a |
| SHADY SIDE MOBILE HOME PARK WATER SYSTEM East Nottingham Township | 28 | n/a | n/a | n/a |
| SHANGRI-LA WATER SYSTEM New Garden Township (part) | n/a | 0.02 | 1.01 | 0.79 |
| SPRING RUN WATER SYSTEM West Bradford Township (part) | 3,210 | 0.28 | 0.97 | 0.50 |
| SPRINGTON MOBILE HOME PARK WATER SYSTEM West Brandywine Township (part) | 60 | 0.00 | n/a | n/a |
| ST. MARY OF PROVIDENCE WATER West Nantmeal Township (part) | 45 | 0.01 | n/a | n/a |
| STONEHEDGE WATER SYSTEM Upper Uwchlan Township | 300 | 0.02 | 0.36 | 0.27 |
| STONY RUN MOBILE HOME PARK WATER SYSTEM East Vincent Township (part) | 128 | 0.01 | n/a | n/a |
| TAYLORS MOBILE HOME PARK WATER SYSTEM Valley Township (part) | 91 | 0.01 | n/a | n/a |
| TEL HAI RETIREMENT COMMUNITY WATER SYSTEM Honey Brook Township (part) | 450 | 0.04 | 0.14 | 0.07 |

| WATER SYSTEM ¹ & Municipalities Served | DOMESTIC POPULATION SERVED | AVERAGE DAILY WATER USE (MGD) | SYSTEM SUPPLY CAPACITY (MGD) | EXCESS CAPACITY (MGD) |
|--|-------------------------------|----------------------------------|---------------------------------|-----------------------|
| UPSTATE SYSTEM | 70 | 0.004 | 0.01 | 0.004 |
| East Nantmeal Township (part) | | | | |
| East Cain Township (part) | | | | |
| Uwchlan Township (part) | | | | |
| West Pikeland Township | | | | |
| West Whiteland Township | | | | |
| VALLY SPRINGS WATER SYSTEM | | | | |
| Valley Township (part) | | | | |
| VALLEY VIEW MOBILE HOME PARK WATER SYSTEM | | | | |
| Honey Brook Township (part) | | | | |
| VETERANS ADMINISTRATION MEDICAL CENTER WATER SYSTEM | | | | |
| Cain Township (part) | | | | |
| WARWICK WATER ASSOCIATION | | | | |
| Warwick Township | | | | |
| WEST CHESTER AREA MUNICIPAL AUTHORITY | | | | |
| East Bradford Township (part) | | | | |
| West Chester Borough | | | | |
| West Goshen Township | | | | |
| Westtown Township (part) | | | | |
| WEST GROVE BOROUGH WATER SYSTEM | | | | |
| West Grove Borough | | | | |
| London Grove Township (part) | | | | |
| WEST WHITELAND TOWNSHIP WATER SYSTEM | | | | |
| West Whiteland Township (part) | | | | |

| WATER SYSTEM ¹ & Municipalities Served | DOMESTIC POPULATION SERVED | AVERAGE DAILY WATER USE (MGD) | SYSTEM SUPPLY CAPACITY (MGD) | EXCESSS CAPACITY (MGD) |
|--|-------------------------------|----------------------------------|---------------------------------|---------------------------|
| WOODBROOK DEVELOPMENT East Brandywine Township (part) | 25 | n/a | n/a | n/a |
| TOTAL | 249,187 | 30.46 | 17.08 | 6.04 |

¹Some Chester County municipalities are served by water systems based in Montgomery County. Parts of East Coventry Township and North Coventry Township are supplied with water by the Pottstown Water Department, and parts of East Pikeland Township, East Vincent Township and Spring City Borough are served by the Citizens Home Utilities Water System.

²Most of the water supplied by the Chester Water Authority (12.20 MGD) goes to industrial customers. 5.78 MGD are consumed by residential customers, 2.76 MGD by commercial users, 5.23 MGD are sold in bulk to other suppliers, and 5.62 MGD are unaccounted for. There are 30,770 domestic connections. Approximately ninety five percent of Chester Water Authority's customers are located in Delaware County.

SOURCES: CHESTER COUNTY PLANNING COMMISSION, WATER FACILITIES INVENTORY 1991, MAY 1992; PHILADELPHIA SUBURBAN WATER COMPANY AND CHESTER WATER AUTHORITY, SPRING 1992.



DELAWARE VALLEY REGIONAL PLANNING COMMISSION, JUNE 1992

DELAWARE COUNTY WATER SUPPLY INVENTORY

Delaware County is served by six water companies, two of which provide service to two small subdivisions of less than 100 customers. Together these companies provide public water service to most Delaware County residents. Although several western municipalities are not now served in their entirety, they are all part of a franchise area.

According to the Delaware County Planning Department (DCPD) approximately 65% of Delaware County's water comes from sources outside Delaware County.⁴ The County's primary source of water is surface water from Octoraro Creek, Crum Creek, Chester Creek, Ridley Creek, and the Susquehanna River. Only the Media Water Company uses groundwater.

The Philadelphia Suburban Water County (PSWC) is one of the largest water purveyors in the region. The PSWC has an average daily water use of approximately 87 mgd of which approximately 40 mgd goes to Delaware County customers. However, the PSWA's total supply capacity is approximately 122 mgd. Water for Delaware County customers is treated at PSWC's treatment plants in Springfield Township, Delaware County and Pickering and Upper Merion Township in Montgomery County.

Service Area

The entire county lies within a water franchise/probable future service area. Approximately two-thirds of the county's land area is located within an existing water supply area. Future water service will be provided in the western municipalities as development warrants.

The following water supply data was obtained from the individual water purveyors during the Spring of 1992.

⁴Delaware County Planning Department, *Delaware County Water Supply, 1990*.

TABLE III
DELAWARE COUNTY
INVENTORY OF PUBLIC WATER SUPPLY FACILITIES
1992

| WATER SUPPLIER & Municipalities Served | DOMESTIC POPULATION SERVED | AVERAGE DAILY WATER USE (MGD) | SYSTEM SUPPLY CAPACITY (MGD) | EXCESS CAPACITY (MGD) |
|---|-------------------------------|----------------------------------|---------------------------------|--------------------------|
| BETHEL TOWNSHIP WATER COMPANY | 1,300 | 1.03 | 1.50 | 0.17 |
| Bethel Township (part) | | | | |
| Concord Township (part) | | | | |
| CHESTER WATER AUTHORITY ¹ | | | | |
| DELAWARE COUNTY PORTION | | | | |
| Aston Township | 107,100 | 33.16 | 85.00 | 36.23 |
| Bethel Township (part) | | | | |
| Birmingham Township | | | | |
| Brookhaven Borough | | | | |
| Chester City | | | | |
| Chester Township | | | | |
| Concord Township (part) | | | | |
| Lower Chichester Township | | | | |
| Marcus Hook Borough | | | | |
| Middletown Township | | | | |
| Nether Providence Township (part) | | | | |
| Parkside Borough | | | | |
| Thornbury Township | | | | |
| Trainer Borough | | | | |
| Upland Borough | | | | |
| Upper Chichester Township | | | | |
| MEDIA WATER COMPANY | | | | |
| Aston Township (part) | 45,000 | 5.00 | 8.50 | 1.80 |
| Chester Heights (part) | n/a | | | |
| Edgemont Township (part) | n/a | | | |
| Media Borough | 5,957 | | | |
| Middletown Township | 14,130 | | | |

DELAWARE WATER¹

| WATER SUPPLIER & Municipalities Served | DOMESTIC POPULATION SERVED | AVERAGE DAILY WATER USE (MGD) | SYSTEM SUPPLY CAPACITY (MGD) | EXCESS CAPACITY (MGD) |
|--|-------------------------------|----------------------------------|---------------------------------|--------------------------|
| MEDIA WATER COMPANY (CONT.) | | | | |
| Nether Providence Township (part) | 13,229 | | | |
| Upper Providence Township | 9,727 | | | |
| Rose Valley Borough | 982 | | | |
| PHILADELPHIA SUBURBAN WATER COMPANY² | | | | |
| DELAWARE COUNTY PORTION | | | | |
| Aldan Borough | | | | |
| Clifton Heights Borough | | | | |
| Collingdale Borough | | | | |
| Colwyn Borough | | | | |
| Darby Borough | | | | |
| East Lansdowne Borough | | | | |
| Eddystone Borough | | | | |
| Folsom Borough | | | | |
| Glenolden Borough | | | | |
| Lansdowne Borough | | | | |
| Millbourne Borough | | | | |
| Morton Borough | | | | |
| Norwood Borough | | | | |
| Prospect Park Borough | | | | |
| Ridley Park Borough | | | | |
| Rutledge Borough | | | | |
| Sharon Hill Borough | | | | |
| Swarthmore Borough | | | | |
| Yeadon Borough | | | | |
| Darby Township | | | | |
| Edgmont Township (part) | | | | |
| Haverford Township | | | | |
| Marple Township | | | | |
| Nether Providence Township (part) | | | | |
| Newtown Township | | | | |

| WATER SUPPLIER & Municipalities Served | DOMESTIC POPULATION SERVED | AVERAGE DAILY WATER USE (MGD) | SYSTEM SUPPLY CAPACITY (MGD) | EXCESS CAPACITY (MGD) |
|--|-------------------------------|----------------------------------|---------------------------------|--------------------------|
| PHILADELPHIA SUBURBAN WATER COMPANY (CONT.) | | | | |
| Radnor Township | | | | |
| Ridley Township | | | | |
| Springfield Township | | | | |
| Tinicum Township | | | | |
| Upper Darby Township | | | | |
| TOTAL | 583,400 | 69.66 | 10.00 | 3.77 |

¹Much of the water supplied by the Chester Water Authority (12.20 MGD) goes to industrial customers. 5.78 MGD are consumed by residential customers, 2.76 by commercial users, 5.23 MGD are sold in bulk to other suppliers, and 5.62 MGD are unaccountable. Approximately five percent of Chester

Water Authority's customers are in Chester County.

²Also serves municipalities in Montgomery and Chester Counties; population served and average daily use in Delaware County are approximate, as some service areas cross county lines.

SOURCE: DATA SUPPLIED BY INDIVIDUAL WATER PURVEYORS, SPRING 1992.

 DELAWARE VALLEY REGIONAL PLANNING COMMISSION, JUNE 1992

MONTGOMERY COUNTY WATER SUPPLY INVENTORY

Approximately 90% of Montgomery County's 62 municipalities are at least partially served by a public water system, with service provided to 43% of the population. Additionally, as the map shows, many municipalities in the east are served in their entirety. However, most western municipalities have little or no service. The following municipalities have no public water service:

| | | |
|----------------------|----------------------|--------------------------|
| Green Lane Borough | New Hanover Township | Upper Frederick Township |
| Marlborough Township | Salford Township | Upper Salford Township |

Twelve of the county's 19 public water purveyors receive 100% of their water supply from wells, while three purveyors rely on surface water (primarily the Schuylkill River) as their only source of water. The remaining water companies rely on a combination of surface and groundwater for their water supplies.

The following water supply inventory was obtained from data collected by the Montgomery County Planning Commission.⁵

Service Area

Only the eastern half of Montgomery County (from approximately Route 363 to the eastern boundary) is completely served by public water. West of Route 363, public water service is primarily available in the areas of Pottstown, the Route 422 corridor, and within the area of the Northeast Extension in Franconia and Lower Salford. The remainder of the county lies within a franchise area and will probably receive public water service in the future.

⁵Montgomery County Planning Commission, *Water Supply Facilities 1990 Status Report*, June 1992.

TABLE IV
MONTGOMERY COUNTY
INVENTORY OF PUBLIC WATER SUPPLY FACILITIES
1992

| WATER SUPPLIER & Municipalities Served | DOMESTIC POPULATION SERVED | AVERAGE DAILY WATER USE (MGD) | SUPPLY CAPACITY (MGD) | EXCESS CAPACITY (MGD) |
|---|-------------------------------|----------------------------------|--------------------------|--------------------------|
| AMBLER BOROUGH WATER DEPARTMENT | | | | |
| Ambler Borough | 25,000 | 2.18 | 3.68 | 0.76 |
| Lower Gwynedd Township (part) | | | | |
| Upper Dublin Township (part) | | | | |
| Whitemarsh Township (part) | | | | |
| Whitpain Township (part) | | | | |
| AUDUBON WATER COMPANY | | | | |
| Lower Providence Township (part) | 6,500 | 0.88 | 1.78 | 0.54 |
| BOYERTOWN WATER AUTHORITY | | | | |
| Douglass Township (part) | 5,900 | 0.89 | 2.00 | 0.71 |
| CITIZENS UTILITIES HOME WATER COMPANY | | | | |
| East Pikeland Township (Chester County) | 10,768 | 1.50 | 4.16 | 1.83 |
| East Vincent Township (Chester County) | | | | |
| Limerick Township | | | | |
| Royersford Borough | | | | |
| Spring City (Chester County) | | | | |
| Upper Providence Township | | | | |
| COLLEGEVILLE/TRAPPE JOINT WATER SYSTEM | | | | |
| Collegeville Borough | 7,600 | 0.61 | 2.00 | 0.99 |
| Trappe Borough | | | | |
| EAST GREENVILLE BOROUGH WATER | | | | |
| East Greenville Borough | 3,200 | 0.24 | 1.05 | 0.45 |
| EVANSBURG WATER COMPANY | | | | |
| Lower Providence Township (part) | n/a | 0.08 | 0.23 | 0.10 |
| Perkiomen Township (part) | | | | |
| HATBORO BOROUGH WATER AUTHORITY | | | | |
| Hatboro Borough | 6,501 | 2.00 | 3.31 | 0.65 |
| Horsham Township (part) | | | | |
| Upper Moreland Township (part) | | | | |

| WATER SUPPLIER & Municipalities Served | DOMESTIC POPULATION SERVED | AVERAGE DAILY WATER USE (MGD) | SUPPLY CAPACITY (MGD) | EXCESS CAPACITY (MGD) |
|---|-------------------------------|----------------------------------|--------------------------|--------------------------|
| HORSHAM TOWNSHIP WATER AUTHORITY | 17,663 | 1.82 | 3.60 | 1.06 |
| Horsham Township (part) | | | | |
| NORTH PENN WATER AUTHORITY | | | | |
| Franconia Township (part) | 75,988 | 6.88 | 6.87 | 0.00 |
| Hatfield Borough | | | | |
| Hatfield Township | | | | |
| Lansdale Borough | | | | |
| Lower Salford Township | | | | |
| Montgomery Township | | | | |
| Skiptack Township | | | | |
| Souderton Borough (part) | | | | |
| Towamencin Township | | | | |
| Upper Gwynedd Township (part) | | | | |
| Worcester Township (part) | | | | |
| NORTH WALES WATER AUTHORITY | | | | |
| Lower Gwynedd Township (part) | 50,000 | 6.60 | 9.28 | 0.82 |
| New Britain Township (Bucks County) | | | | |
| North Wales Borough | | | | |
| Upper Dublin Township (part) | | | | |
| Upper Gwynedd Township (part) | | | | |
| Whitpain Township (part) | | | | |
| PENNSYLVANIA AMERICAN WATER COMPANY | | | | |
| Bridgeport Borough | 79,000 | 12.09 | 16.80 | 4.71 |
| East Norriton Township | | | | |
| Lower Providence Township (part) | | | | |
| Norristown Borough | | | | |
| Plymouth Township (part) | | | | |
| Upper Merion Township (part) | | | | |
| West Norritown Township | | | | |
| Whitpain Township (part) | | | | |
| Worcester Township (part) | | | | |

| WATER SUPPLIER & Municipalities Served | DOMESTIC POPULATION SERVED | AVERAGE DAILY WATER USE (MGD) | SUPPLY CAPACITY (MGD) | EXCESS CAPACITY (MGD) |
|--|-------------------------------|----------------------------------|--------------------------|--------------------------|
| PERKIOMEN TOWNSHIP WATER AUTHORITY | | | | |
| Perkiomen Township (part) | n/a | 0.04 | 0.26 | 0.19 |
| POTTSBOTTOM WATER DEPARTMENT | n/a | | | |
| Douglass Township (part) | | | | |
| East Coventry Township (Chester County) | | | | |
| Lower Pottsgrove Township | | | | |
| North Coventry Township (Chester County) | | | | |
| Pottstown Borough | | | | |
| Upper Pottsgrove Township | | | | |
| West Pottsgrove Township | | | | |
| PHILADELPHIA SUBURBAN WATER COMPANY¹ | | | | |
| MONTGOMERY COUNTY PORTION | | | | |
| Abington Township | 830,000 | 71.62 | 110.05 | 16.42 |
| Bryn Athyn Borough | 311,000 | 29.95 | n/a | n/a |
| Cheltenham Township | | | | |
| Conshohocken Borough | | | | |
| Jenkintown Borough | | | | |
| Lower Merion Township | | | | |
| Lower Moreland Township | | | | |
| Narberth Borough | | | | |
| Plymouth Township (part) | | | | |
| Rockledge Borough | | | | |
| Springfield Township | | | | |
| Upper Dublin Township (part) | | | | |
| Upper Merion Township (part) | | | | |
| Upper Moreland Township (part) | | | | |
| West Conshohocken Borough | | | | |
| Whitemarsh Township (part) | | | | |

| WATER SUPPLIER & Municipalities Served | DOMESTIC POPULATION SERVED | AVERAGE DAILY WATER USE (MGD) | SUPPLY CAPACITY (MGD) | CAPACITY (MGD) | EXCESS CAPACITY (MGD) |
|---|-------------------------------|----------------------------------|--------------------------|----------------|--------------------------|
| RED HILL WATER AUTHORITY Hereford Township (Berks County) | 2,300 | 0.40 | 0.79 | 0.23 | |
| Red Hill Borough | | | | | |
| Upper Hanover Township (part) | | | | | |
| Upper Milford Township (Lehigh County) | n/a | 0.30 | 1.96 | 1.27 | |
| SCHWENKESVILLE BOROUGH WATER Lower Frederick Township | | | | | |
| Perkiomen Township (part) | | | | | |
| Schwenksville Borough | | | | | |
| TELFFORD BOROUGH AUTHORITY Franconia Township (part) | 6,532 | 0.52 | 1.79 | 0.91 | |
| Hilltown Township (Bucks County) | | | | | |
| Souderton Borough (part) | | | | | |
| Telford Borough | | | | | |
| West Rockhill Township (Bucks County) | 3,500 | 0.73 | 1.20 | 0.23 | |
| UPPER HANOVER WATER AUTHORITY Hereford Township (Berks County) | | | | | |
| Pennsbury Borough | | | | | |
| Upper Hanover Township (part) | | | | | |
| TOTAL | 611,452 | 73.71 | 72.76 | 19.03 | |

¹Also serves municipalities in Chester and Delaware Counties; population served and average daily flows in Montgomery County are approximate, as some service areas cross county lines.

SOURCE: MONTGOMERY COUNTY PLANNING COMMISSION, WATER SUPPLY FACILITIES, 1990 STATUS REPORT, JUNE 1992;
PHILADELPHIA SUBURBAN WATER COMPANY, SPRING 1992.



DELAWARE VALLEY REGIONAL PLANNING COMMISSION, JUNE 1992

PHILADELPHIA WATER SUPPLY INVENTORY

The entire City of Philadelphia is served by public water which is supplied by the Philadelphia Water Department. Fifty percent of the City's water is supplied by the Delaware River and 50% from the Schuylkill River.

Service Area

All residential and commercial areas within the City of Philadelphia are served by the public water system.

TABLE V
 PHILADELPHIA COUNTY
 INVENTORY OF PUBLIC WATER SUPPLY FACILITIES
 1992

| WATER SUPPLIER & Municipalities Served | DOMESTIC POPULATION SERVED | AVERAGE DAILY WATER USE (MGD) | SYSTEM SUPPLY CAPACITY (MGD) | EXCESS CAPACITY (MGD) |
|---|-------------------------------|----------------------------------|---------------------------------|--------------------------|
| Philadelphia Water Department | 1,600,000 | 364.00 | 530.00 | 166.00 |
| Philadelphia | | | | |
| TOTAL | 1,600,000 | 364.00 | 530.00 | 166.00 |

SOURCE: DATA SUPPLIED BY PHILADELPHIA WATER DEPARTMENT, MARCH 1992.



DELAWARE VALLEY REGIONAL PLANNING COMMISSION, JUNE 1992

INVENTORY OF PUBLIC SEWAGE TREATMENT FACILITIES

Large scale development cannot take place without adequate public sewage facilities. The coordination of land use and public sewage facilities is an important element of growth management. In Pennsylvania, this coordination process takes place through local Act 537 Plans.

PENNSYLVANIA ACT 537 PLANS

The "Pennsylvania Sewage Facilities Act" of 1965 (P.L.1535, No. 537) requires Pennsylvania municipalities to develop and implement comprehensive plans concerning the municipality's existing and future sewage disposal needs. These plans must be approved by PADER before a wastewater treatment plant can be built, improved or re-rated. All new development must be in conformance with the Act 537 Plan. It is through these plans that a municipality's future wastewater disposal needs can be determined and existing and proposed sewer service areas identified. However, not all municipalities have Act 537 Plans. Those that are fully developed and do not anticipate any changes in their sewage disposal needs or those municipalities with no public sewage facilities may not have Act 537 Plans.

The PADER must issue a permit for the construction, improvement or re-rating of a wastewater treatment plant. The permit is based, in part, on the municipalities Act 537 Plan.

DEFINITION OF SEWAGE TREATMENT DATA

Sewage Treatment Facility/Municipalities Served

This column lists the name of the facility responsible for sewage treatment and the municipalities it services. Unlike water service (franchise) areas, sewer service areas are specific locations which comply with an Act 537 Plan in Pennsylvania.

DER Rated Capacity

Each wastewater treatment facility in Pennsylvania must receive a permit from DER to operate. This permit regulates the quantity of sewage which can be treated and the quality of the effluent which can be discharged into local bodies of water.

Excess Capacity

Typically a sewer system is said to be at capacity when 80% of its design capacity is reached. With many sewage treatment systems in this inventory, the excess capacity is calculated as the difference between 80% of the system's supply capacity and its average daily use. However, if a specific excess capacity was identified by the sewage treatment facility operator, that figure was used even if it was not based on 80% of design capacity. The source of the excess capacity data is noted for each facility.

In general, the average dwelling unit generates approximately 250 gallons of wastewater a day. Using this general rule-of-thumb, a sewage treatment facility would need an excess capacity of 25,000 gallons per day (.025 mgd) to treat a 100-unit residential development.

Expansion Plans

The data on expansion plans includes only those improvements which would increase the capacity of the sewage treatment facility. This column does not include information on improvements to the local sewer system or modifications which would improve a system's efficiency or the quality of its effluents.

BUCKS COUNTY SEWAGE TREATMENT FACILITIES INVENTORY

As the accompanying map shows, the eastern municipalities within Bucks county currently have public sewer services. Additionally, the Warminster area, the Doylestown area, the Sellersville area and the Quakertown area have sewer service. No information on future sewer service areas is available county-wide. The sewer service areas were obtained from a Bucks County Planning Commission map entitled Wastewater Facilities 1990.

The accompanying service area map and the inventory indicate that ten of the county's 54 municipalities have no public sewer service as follows:

| | |
|-------------------------|--------------------------|
| Bridgetown Township | Riegelsville Borough |
| Durham Township | Springfield Township |
| Hackcock Township | Tinicum Township |
| Langhorne Major Borough | Upper Makefield Township |
| Nockamixon Township | Wrightstown Township |

Although the remaining municipalities have public sewer service, the service may be limited to a small area or single development within the municipality.

The following tables provide an inventory of public sewage treatment facilities in Bucks County. The base information was obtained from a report prepared by the Bucks County Planning Commission, however the data was updated by DVRPC through phone calls to each sewage treatment facility in January 1992.⁶

⁶Bucks County Planning Commission, *Bucks County Wastewater Facility Inventory* 1989, December 1990.

TABLE VI
BUCKS COUNTY
INVENTORY OF PUBLIC SEWAGE TREATMENT FACILITIES
1992

| SEWAGE TREATMENT FACILITY ¹ & Municipalities Served | DER RATED CAPACITY (MGD) | CURRENT FLOW (MGD) | EXCESS CAPACITY ² (MGD) | EXPANSION PLANS |
|--|-----------------------------|-----------------------|---|---|
| BEDMINSTER TOWNSHIP MUNICIPAL AUTHORITY Bedminster Township (part) | 0.10 | 0.06 | 0.02 | Re-rating to .15 MGD planned; no application |
| BRISTOL BOROUGH SEWER AUTHORITY Bristol Borough | 2.85 | 2.42 | 0.05 ³ | |
| BRISTOL TOWNSHIP AUTHORITY Bristol Township (part) | 2.25 | 1.56 | 0.00 ³ | |
| BUCKINGHAM TOWNSHIP WATER & SEWER AUTHORITY Buckingham Township (part) | 0.24 | 0.15 | 0.00 | Re-rating to .246 MGD |
| CHALFONT-NEW BRITAIN TOWNSHIP JOINT SEWAGE AUTHORITY Bedminster Township (part) Buckingham Township (part) Chalfont Borough Doylestown Township (part) Montgomery Township (Montgomery County) New Britain Borough New Britian Township Plumstead Township | 4.00 | 2.80 | 1.20 ³ | |
| DOYLESTOWN BOROUGH Green Street Plant Harvey Avenue Plant Doylestown Borough (part) | 1.50 0.60 0.90 | 0.68 0.25 0.43 | 0.81 ³ 0.35 ³ 0.46 ³ | |
| DOYLESTOWN TOWNSHIP MUNICIPAL AUTHORITY-KINGS PLAZA PLANT Doylestown Township (part) Warrington Township (part) | 0.43 | 0.20 | 0.23 ³ | |
| DUBLIN BOROUGH SEWER AUTHORITY Dublin Borough | 0.50 | 0.33 | 0.14 ³ | |

| SEWAGE TREATMENT FACILITY ¹ & Municipalities Served | DER RATED CAPACITY (MGD) | CURRENT FLOW (MGD) | EXCESS CAPACITY ² (MGD) | EXPANSION PLANS |
|---|-----------------------------|-----------------------|---------------------------------------|--|
| LAMBERTVILLE SEWERAGE AUTHORITY (located in New Jersey) New Hope Borough/Solebury Township | 1.50 | 0.77 | 0.43 | |
| New Jersey Municipalities | | 0.27 | | |
| 0.50 | | | | |
| LOWER BUCKS COUNTY JOINT MUNICIPAL AUTHORITY Bristol Township (part) Falls Township (part) Tullytown Borough | 10.00 | 7.53 | 0.47 | |
| Middletown Township (part) | | | | |
| 0.38 | | | | |
| MILFORD-TRUMBULLSVILLE AREA SEWER AUTHORITY Milford Township/Quakertown Borough (part) Richland Township (part) | 0.50 | 0.32 | 0.05 ³ | Re-rating to .8 MGD; in engineering/design phase |
| n/a | | | | |
| 0.06 | | | | |
| Trumbullsville Borough | | | | |
| THE MUNICIPAL AUTHORITY OF THE BOROUGH OF MORRISVILLE Falls Township (part) | 7.10 | 3.70 | 3.60 ³ | Re-rating to 8.7 MGD; in engineering/design phase |
| n/a | | | | |
| 2.09 | | | | |
| Lower Makefield Township | | | | |
| 4.11 | | | | |
| Morrisville Borough | | | | |
| 2.2 | | | | |
| Yardley Borough | | | | |
| n/a | | | | |
| NORTHEAST PHILADELPHIA TREATMENT PLANT (for capacity of treatment plant see Philadelphia table) | | | | |
| (1) NESHAMINY INTERCEPTOR | | | | |
| Bensalem Township (part) | | | | |
| 2.81 | | | | |
| Bristol Township (part) | | | | |
| 0.59 | | | | |
| Falls Township (part) | | | | |
| 1.92 | | | | |
| Hulmeville Borough | | | | |
| 0.08 | | | | |
| Langhorne Borough | | | | |
| n/a | | | | |
| Lower Makefield Township | | | | |
| 0.86 | | | | |
| Lower Southampton Township (part) | | | | |
| n/a | | | | |
| Middletown Township (part) | | | | |
| n/a | | | | |
| Newtown Borough & Newtown Township | | | | |
| 1.50 | | | | |
| Northampton Township (part) | | | | |
| n/a | | | | |
| Pennel Borough | | | | |
| n/a | | | | |

BUCKS SEWER-II

| SEWAGE TREATMENT FACILITY ¹ & Municipalities Served | DER RATED CAPACITY (MGD) | CURRENT FLOW (MGD) | EXCESS CAPACITY ² (MGD) | EXPANSION PLANS |
|---|-----------------------------|-----------------------|---------------------------------------|--------------------|
| NORTHEAST PHILADELPHIA TREATMENT PLANT (CONT.) | | | | |
| (2) POQUESSING INTERCEPTOR | | | | |
| Bensalem Township (part) | 3.10 | | | |
| Lower Southampton Township (part) | n/a | | | |
| Northampton Township (part) | 0.16 | | | |
| Upper Southampton Township (part) | 1.20 | | | |
| Warminster Township (part) | 0.0003 | | | |
| PENNridge WASTEWATER TREATMENT AUTHORITY | | | | |
| East Rockhill Township | 4.00 | 2.75 | 1.25 ³ | |
| Hilltown Township | | | | |
| Perkasie Borough | | | | |
| Sellersville Borough | | | | |
| Silverdale Borough | | | | |
| Telford Borough | | | | |
| QUAKERTOWN BOROUGH | | | | |
| Quakertown Borough (part) | 4.00 | 2.50 | 0.24 ⁴ | |
| Richland Township (part) | | 1.47 | | |
| Richlandtown Borough | | 0.77 | | |
| WARMINSTER TOWNSHIP MUNICIPAL AUTHORITY | | | | |
| Iyland Borough | | n/a | | |
| Warminster Township (part) | 8.18 | 3.80 | 2.74 | |
| Warrington Township (part) | | | | |
| Warwick Township (part) | | | | |

| SEWAGE TREATMENT FACILITY ¹ & Municipalities Served | DER RATED CAPACITY (MGD) | CURRENT FLOW (MGD) | EXCESS CAPACITY ² (MGD) | EXPANSION PLANS |
|---|-----------------------------|-----------------------|---------------------------------------|--------------------|
| WARWICK TOWNSHIP WATER & SEWER AUTHORITY Warwick Township (part) | n/a | n/a | n/a | n/a |
| TOTAL | 47.15 | 41.85 | 11.23 | |

¹Sewage produced in some areas of Bucks County is sent to Montgomery County for treatment. Sewage from parts of Upper Southampton Township flows to the Chapel Hill plant. The Telford Borough Authority treats sewage from West Rockhill and Hilltown Townships. Hilltown Township is also served by the Souderton Borough Authority and the Hatfield Township Municipal Authority. As noted in the table, sewage is also treated in Philadelphia and New Jersey.

²If sewage treatment plant operator could not supply data, excess capacity was determined by subtracting current flow from 80% of DER rated capacity (see text).

³Sewage treatment plant operator supplied data.

SOURCE: BUCKS COUNTY PLANNING COMMISSION, BUCKS COUNTY WASTEWATER FACILITIES INVENTORY 1989, DECEMBER 1990,
UPDATED BY DVRPC JANUARY 1992.



DELAWARE VALLEY REGIONAL PLANNING COMMISSION, JUNE 1992

CHESTER COUNTY SEWAGE TREATMENT FACILITIES INVENTORY

Chester County has approximately 22 public and private sewage treatment systems which provide sewer service to 40 of Chester County's 73 municipalities. In many municipalities with public service, the service is limited to a small area or single development. Most of the facilities service two or more municipalities.

The municipalities which do not have public sewer service are as follows:

| | | |
|---------------------------|-------------------------|---------------------------|
| Birmingham Township | Londonderry Township | Upper Uwchlan Township |
| East Coventry Township | Lower Oxford Township | Wallace Township |
| East Marlborough Township | Newlin Township | Warwick Township |
| East Nantmeal Township | New London Township | West Brandywine Township |
| East Vincent Township | Penn Township | West Caln Township |
| Elverson Borough | Pennsbury Township | West Fallowfield Township |
| Franklin Township | Pocopson Township | West Marlborough Township |
| Highland Township | Sadsbury Township | West Natmeal Township |
| Honey Brook Borough | South Coventry Township | West Nottingham Township |
| Honey Brook Township | Thornbury Township | West Pikeland Township |
| London Britain Township | Upper Oxford Township | West Sadsbury Township |

At this time, a map of Chester County's sewer service areas is not available. The Chester County Planning Commission is in the process of updating their 1985 Wastewater Facilities map. The updated map should be available by Fall 1992.

The following inventory of Chester County's public sewage treatment facilities was obtained from a 1985 Chester County Planning Commission report, which was updated by DVRPC in March 1992.⁷ Although every effort was made to include new facilities, some that opened between 1985 and 1992 may not appear on this inventory. Along with the updated map, the Chester County Planning Commission is updating its 1985 inventory report which should include any new facilities.

⁷Chester County Planning Commission, *Community Facilities Inventory, Volume 1, Sewer Facilities*, December 1985.

TABLE VII
CHESTER COUNTY
INVENTORY OF PUBLIC SEWAGE TREATMENT FACILITIES
1992

| SEWAGE TREATMENT FACILITY ¹ & Municipalities Served | DER RATED CAPACITY (MGD) | CURRENT FLOW (MGD) | EXCESS CAPACITY ² (MGD) | EXPANSION PLANS |
|---|-----------------------------|-----------------------|---------------------------------------|--|
| BOROUGH OF ATGLEN SEWER DEPARTMENT | 0.09 | 0.06 | 0.01 | |
| Atglen Borough | | | | |
| BOROUGH OF AVONDALE WASTEWATER TREATMENT PLANT | 0.30 | 0.28 | 0.50 ³ | |
| Avondale Borough | | | | |
| New Garden Township | | | | |
| BROAD RUN SEWAGE COMPANY | 0.40 | 0.28 | 0.10 ³ | |
| West Bradford Township (part) | | | | |
| COATESVILLE SEWAGE PLANT | 3.85 | 2.43 | 1.00 ³ | |
| Cain Township (part) | | | | |
| City of Coatesville | | | | |
| East Fallowfield Township | | | | |
| Valley Township | | | | |
| DOWNTINGTON REGIONAL WATER POLLUTION CONTROL CENTER | 7.00 | 4.60 | 2.40 ³ | In process of completing Act 537 Plan Amendment |
| Cain Township (part) | 1.23 | | | |
| Downington Borough (part) | 1.98 | | | |
| East Cain Township (part) | 0.50 | | | |
| Uwchlan Township | 1.58 | | | |
| West Whiteland Township | 1.73 | | | |
| EAST CALN TOWNSHIP SEWAGE SYSTEM | 0.50 | 0.30 | 0.10 | |
| East Cain Township | | | | |
| West Whiteland Township (part) | | | | |
| BOROUGH OF KENNEDY SQUARE SEWAGE SYSTEM | 1.10 | 0.77 | 0.12 ³ | |
| Kennett Square Borough | n/a | | | |
| Kennett Township | 0.12 | | | |
| New Garden Township | 0.07 | | | |
| LITTLE WASHINGTON DRAINAGE COMPANY | 0.06 | 0.04 | 0.01 | |
| East Brandywine Township (part) | | | | |
| BOROUGH OF MALVERN SEWAGE SYSTEM | 0.56 | 0.24 | 0.28 ³ | |
| Malvern Borough | | | | |

| SEWAGE TREATMENT FACILITY ¹ & Municipalities Served | DER RATED CAPACITY (MGD) | CURRENT FLOW (MGD) | EXCESS CAPACITY ² (MGD) | EXPANSION PLANS |
|---|-----------------------------|-----------------------|---------------------------------------|-------------------------------|
| NORTH COVENTRY TOWNSHIP MUNICIPAL AUTHORITY North Coventry Township | 0.60 | 0.50 | 0.10 ³ | Requesting upgrade to 1.2 MGD |
| NORTHWEST CHESTER COUNTY MUNICIPAL AUTHORITY | 0.60 | 0.30 | 0.30 | |
| Honey Brook Borough | | | | |
| Honey Brook Township (part) | | | | |
| BOROUGH OF OXFORD SEWAGE | | | | |
| East Nottingham Township | | | | |
| Oxford Borough | | | | |
| PARKESBURG BOROUGH AUTHORITY | | | | |
| Parkeburg Borough | | | | |
| PHOENIXVILLE BOROUGH SEWAGE SYSTEM | | | | |
| East Pikeland Township (part) | | | | |
| Phoenixville Borough | | | | |
| Schuylkill Township (part) | | | | |
| BOROUGH OF SPRING CITY MUNICIPAL AUTHORITY | | | | |
| East Vincent Township (part) | | | | |
| Spring City Borough | | | | |
| BOROUGH OF SOUTH COATESVILLE SEWAGE TREATMENT PLANT | | | | |
| Modena Borough | | | | |
| South Coatesville Borough | | | | |
| UWCHIAN TOWNSHIP SANITATION DEPARTMENT | | | | |
| Downingtown Borough (part) | | | | |
| VALLEY FORGE SEWER AUTHORITY | | | | |
| East Whiteland Township | | | | |
| Easttown Township | | | | |
| Malvern Borough | | | | |
| Treddyffrin Township | | | | |
| Willistown Township | | | | |
| East Pikeland Township (part), Charleston Township, Schuylkill Township (part) and West Vincent Township | 2.12 | | | |

| SEWAGE TREATMENT FACILITY ¹ & Municipalities Served | DER RATED CAPACITY (MGD) | CURRENT FLOW (MGD) | EXCESS CAPACITY ² (MGD) | EXPANSION PLANS |
|---|-----------------------------|-----------------------|---------------------------------------|------------------------------|
| BOROUGH OF WEST CHESTER SEWER AUTHORITY | 3.66 | 3.18 | 0.15 | |
| GOOSE CREEK PLANT | 1.86 | 1.68 | | for both plants |
| TAYLOR RUN PLANT | 1.80 | 1.50 | | |
| East Bradford Township | | | | |
| West Chester Borough | | | | |
| WEST GOSHEN TOWNSHIP SEWER AUTHORITY | 4.50 | 3.50 | 1.00 ³ | Re-rating to 6 MGD by 1996 |
| East Goshen Township | 1.00 | | | |
| West Goshen Township | 2.85 | | | |
| West Whiteland Township | 0.42 | | | |
| Westtown Township | 0.23 | | | |
| WEST GROVE MUNICIPAL AUTHORITY | 0.25 | 0.17 | 0.03 | |
| London Grove Township | | | | |
| West Grove Borough | | | | |
| WESTTOWN WASTE WATER TREATMENT COMPANY | 0.29 | 0.29 | 1.0 ³ | Expanding to .53 MGD in 1992 |
| Westtown Township | | | | |
| East Goshen Township | | | | |
| TOTAL | 39.03 | 27.98 | 8.83 | |

¹Parts of Treddyffrin Township are served by the Upper Merion Township Municipal Sewer Authority in Montgomery County.

²Excess capacity was determined by subtracting current flow from 80% of DER rated capacity unless noted that plant operator supplied data (see text).

³Sewage treatment plant operator supplied data.

SOURCE: OPERATORS OF EACH SEWAGE TREATMENT FACILITY, SPRING 1992.

DELAWARE COUNTY SEWAGE TREATMENT FACILITIES INVENTORY

Only six of Delaware County's 49 municipalities have limited or no public sewer service. The Delaware County Regional Authority (DELCORA) provides service to all of Delaware County's eastern municipalities. Within DELCORA's eastern region, three authority's collect the sewage and transport it to DELCORA, who in turn, transports it to Philadelphia's southwest treatment plant. Although DELCORA has a treatment plant, it only treats sewage from 12 municipalities in its western region.

The municipalities with limited or no public sewer service are as follows:

Bethel Township

Concord Township

Birmingham Township

Edgemont Township

Chester Heights Borough

Thornbury Township

All of these municipalities have plans to provide public sewer service within some areas of their communities in the near future.

The sewer service areas on the accompanying map and the data on the following table were obtained directly from the operators of the sewage facilities.

TABLE VIII
DELAWARE COUNTY
INVENTORY OF PUBLIC SEWAGE TREATMENT FACILITIES
1992

| SEWAGE TREATMENT FACILITY & Municipalities Served | DER RATED CAPACITY (MGD) | CURRENT FLOW (MGD) | EXCESS CAPACITY ^a (MGD) | EXPANSION PLANS |
|--|-----------------------------|-----------------------|---------------------------------------|--------------------|
| DELCORA - EASTERN REGION² | | | | |
| 1) DARBY CREEK JOINT AUTHORITY | n/a | 21.00 | 0.00 ³ | |
| Aldan Borough | | | | |
| Clifton Heights Borough (part) | | | | |
| Collingdale Borough | | | | |
| Colwyn Borough | | | | |
| Darby Borough | | | | |
| Darby Township (part) | | | | |
| Foicrest Borough (part) | | | | |
| Lansdowne Borough | | | | |
| Radnor-Haverford-Marple Authority | | | | |
| Sharon Hill Borough | | | | |
| Springfield Township (part) | | | | |
| Upper Darby Township (part) | | | | |
| Yeadon Borough | | | | |
| 2) MUCKINPATES AUTHORITY | n/a | 4.00 | 0.00 ³ | |
| Clifton Heights Borough (part) | | | | |
| Darby Township (part) | | | | |
| East Lansdowne Borough | | | | |
| Foicrest Borough (part) | | | | |
| Glenolden Borough | | | | |
| Norwood Borough | | | | |
| Ridley Township (part) | | | | |
| Springfield Township (part) | | | | |
| Upper Darby Township (part) | | | | |

| SEWAGE TREATMENT FACILITY & Municipalities Served | DER RATED CAPACITY (MGD) | CURRENT FLOW (MGD) | EXCESS CAPACITY ¹ (MGD) | EXPANSION PLANS |
|--|-----------------------------|-----------------------|---------------------------------------|--------------------|
| 3) CENTRAL DELAWARE COUNTY AUTHORITY | n/a | 10.00 | 0.00 ³ | |
| Marple Township | | | | |
| Morton Borough | | | | |
| Nether Providence Township (part) | | | | |
| Prospect Park Borough | | | | |
| Ridley Township (part) | | | | |
| Ridley Park Borough | | | | |
| Rutledge Borough | | | | |
| Springfield Township (part) | | | | |
| Swarthmore Borough | | | | |
| DELCORA - WESTERN REGION | | | | |
| Brookhaven Borough | 44.00 | 36.00 | 8.00 | |
| Chester City | | | | |
| Chester Township | | | | |
| Eddystone Borough | | | | |
| Lower Chichester Township | | | | |
| Nether Providence Township | | | | |
| Parkside Borough | | | | |
| Ridley Township | | | | |
| Rose Valley Borough | | | | |
| Trainer Borough | | | | |
| Upland Borough | | | | |
| Upper Chichester Township | | | | |
| TINICUM TOWNSHIP WASTEWATER TREATMENT | | | | |
| Tinicum Township | | | 0.80 | 0.60 |
| MEDIA BOROUGH STP | 1.80 | | | |
| Media Borough | | | 1.50 | 0.30 |
| Upper Providence Township | | | | |

| SEWAGE TREATMENT FACILITY & Municipalities Served | | DER RATED CAPACITY (MGD) | CURRENT FLOW (MGD) | EXCESS CAPACITY ¹ (MGD) | EXPANSION PLANS |
|--|----------------------------------|-----------------------------|-----------------------|---------------------------------------|------------------------------|
| ROSE VALLEY STP | Rose Valley Borough | 0.13 | 0.11 | 0.00 ³ | |
| SOUTHWEST DELAWARE COUNTY MUNICIPAL AUTHORITY | Aston Township | 4.00 | 3.80 | 0.20 | Expanding to 6.0 MGD in 1992 |
| | Brookhaven Borough | | | | |
| | Chester Township | | | | |
| | Middletown Township | | | | |
| | Upper Chichester Township (part) | | | | |
| TOTAL | | 51.33 | 77.21 | 9.1 | |

¹Excess capacity was determined by subtracting current flow from 80% of DER rated capacity unless noted that plant operator supplied data (see text). Sewage generated by municipalities within the eastern region of DELCORA is treated by the Southwest Philadelphia treatment plant. The three authorities collected the sewage and transport it to DELCORA, who in turn, transports the sewage to the Philadelphia treatment plant. The data on current flows represents the average flow received from each authority by DELCORA. The DELCORA treatment plant only treats sewage from its Western region. Individual municipal flows are not metered by DELCORA.

³Sewage treatment plant operator supplied data.

⁴The following municipalities have no public sewer systems: Chester Heights Borough, Concord Township (ongoing negotiations and planning for a system), Edgemont Township, and Thornbury Township. No information was available for Milbourne Borough or Birmingham Township.

⁵Bethel Township sends sewage flows from approximately 600 homes to be treated in Wilmington, Delaware.

SOURCE: OPERATORS OF EACH SEWAGE TREATMENT FACILITY, SPRING 1992.

MONTGOMERY COUNTY SEWAGE TREATMENT FACILITIES INVENTORY

As the accompanying map shows, most of Montgomery County's 62 municipalities currently have some public sewer service. Those municipalities in the eastern section of the county are served almost in their entirety, with the exception of the northeast corner of the county.

Existing service is sporadic within the central and western municipalities. However, these areas contain large sections which the county planning commission feels will eventually be sewerized. The largest proposed sewer service areas are located within the Route 422 corridor, the Perkiomen Valley and north of Pottstown.

TABLE IX
MONTGOMERY COUNTY
INVENTORY OF PUBLIC SEWAGE TREATMENT FACILITIES
1992

| SEWAGE TREATMENT FACILITY ¹ & Municipalities Served | DER RATED CAPACITY (MGD) | CURRENT FLOW (MGD) | EXCESS CAPACITY ² (MGD) | EXPANSION PLANS |
|---|-----------------------------|-----------------------|---------------------------------------|--------------------|
| ABINGTON TOWNSHIP STP | 3.91 | 3.30 | 0.00 ³ | |
| Abington Township | | | | |
| Cheltenham Township | | | | |
| Springfield Township | | | | |
| Upper Dublin Township (part) | | | | |
| Upper Moreland Township (part) | | | | |
| AMBLER MUNICIPAL STP | 6.50 | 4.07 | 2.00 ³ | |
| Ambler Borough | 1.29 | 0.81 | 0.22 | |
| Lower Gwynedd & Montgomery Townships (parts) | 2.35 | 2.04 | 0.00 | |
| Upper Dublin Township (part) | 1.93 | 1.42 | 0.12 | |
| Whitpain Township (part) | 0.70 | 0.05 | 0.51 | |
| Whitemarsh Township (part) | 0.23 | 0.02 | 0.16 | |
| BERKS-MONTGOMERY MUNICIPAL AUTHORITY-WEST SWAMP CREEK TREATMENT PLANT | 1.90 | 1.25 | 0.05 ³ | |
| Douglass Township | 0.01 | | | |
| Boyertown Borough (Berks County) | 0.54 | | | |
| BRIDGEPORT BOROUGH STP | 0.90 | 0.38 | 0.45 ³ | |
| Bridgeport Borough (part) | | | | |
| CONSHOHOCKEN MUNICIPAL AUTHORITY | 2.30 | 1.50 | 0.34 | |
| Conshohocken Borough | n/a | 0.15 | n/a | |
| Plymouth Township (part) | n/a | n/a | n/a | |
| West Conshohocken Borough (part) | 0.50 | 0.26 | 0.14 | |
| CHAPEL HILL STP | 0.22 | 0.12 | 0.05 ³ | |
| Lower Moreland Township | | | | |
| Upper Southampton Township (Bucks County) | | | | |
| EAST NORRITON-PLYMOUTH-WHITPAIN JOINT AUTHORITY | 8.10 | 5.30 | 1.20 ³ | |
| East Norriton Township | 2.70 | 1.48 | 0.68 | |
| Plymouth Township (part) | 2.70 | 1.44 | 0.72 | |
| Whitpain Township (part) | 2.70 | 1.24 | 0.92 | |

MONTGOMERY SEWER-I

| SEWAGE TREATMENT FACILITY ¹ & Municipalities Served | DER RATED CAPACITY (MGD) | CURRENT FLOW (MGD) | EXCESS CAPACITY ² (MGD) | EXPANSION PLANS |
|---|-----------------------------|-----------------------|---------------------------------------|---|
| GREEN LANE-MARLBOROUGH JOINT AUTHORITY | 0.20 | n/a | n/a | |
| Green Lane Borough | | | | |
| Marlborough Township | | | | |
| HATFIELD TOWNSHIP MUNICIPAL AUTHORITY | | | | |
| Franconia Township (part) | 6.43 | 4.00 | 2.43 ³ | Re-rating application to 8.225 MGD pending |
| Hatfield Borough | | n/a | n/a | |
| Hatfield Township (part) | | 0.30 | n/a | |
| Hilltown Township (Bucks County) | | 0.10 | 0.00 ³ | |
| Montgomery Township (part) | | 0.18 | 0.00 ³ | |
| HORSHAM TOWNSHIP SEWER AUTHORITY-WICHARD STP | 0.50 | 2.40 | 1.36 ³ | |
| Horsham Township | | | | |
| LANSDALE MUNICIPAL SEWER AUTHORITY | 4.00 | | | |
| Lansdale Borough | | 1.00 | 0.00 | Re-rating application to 1.30 MGD pending |
| LIMERICK MUNICIPAL SEWER AUTHORITY | | | | |
| Limerick Township | 0.16 | 0.07 | 0.06 | Application to sewer Zeigerville pending Re-rating application 9.50 MGD pending |
| LOWER FREDERICK TOWNSHIP STP | | | | |
| Lower Frederick Township (part) | | | | |
| LOWER PERKIOMEN VALLEY REGIONAL AUTHORITY (OAKS) | 8.50 | 4.70 | 2.10 | |
| Collegeville-Trappe Borough | 1.10 | 0.58 | 0.30 | Portion of re-rating 1.21 MGD |
| Lower Providence Township | 3.98 | 2.57 | 0.61 | 4.45 MGD |
| Perkiomen Township (part) | 0.76 | 0.31 | 0.30 | 0.85 MGD |
| Skippack Township | 0.84 | 0.30 | 0.37 | 0.94 MGD |
| Upper Providence Township | 1.81 | 0.95 | 0.50 | 2.00 MGD |
| LOWER Salford TOWNSHIP STP | 0.70 | 0.60 | 0.12 ³ | Purchasing .120 MGD from Upper Gwynedd |
| Lower Salford Township (part) | | | | |
| LOWER Salford TOWNSHIP-INDIAN HILLS STP | 0.75 | 0.60 | 0.00 | Re-rating application to 1.15 MGD pending |
| Lower Salford Township (part) | | | | |
| NEW HANOVER TOWNSHIP WATER POLLUTION CONTROL CENTER | | | | |
| New Hanover Township | 0.28 | 0.25 | 0.00 ³ | Currently expanding |

| SEWAGE TREATMENT FACILITY ¹ & Municipalities Served | DER RATED CAPACITY (MGD) | CURRENT FLOW (MGD) | EXCESS CAPACITY ² (MGD) | EXPANSION PLANS |
|---|-----------------------------|-----------------------|---------------------------------------|---|
| NORRISTOWN MUNICIPAL SEWER AUTHORITY | 9.75 | 6.50 | 3.25 ³ | |
| Norristown Borough | | 2.00 | | |
| West Norriton Township | | 4.00 | | |
| NORTH WALES MUNICIPAL AUTHORITY | 0.84 | 0.35 | 0.49 ³ | |
| North Wales Borough | | | | |
| POTTSSTOWN WASTE WATER TREATMENT PLANT | 7.40 | 8.50 | 0.00 | Re-rating to 15.5 MGD by 4/92 |
| Lower Pottsgrove Township | 0.65 | 1.30 | | Re-rating to 3.50 MGD |
| Pottstown Borough | 5.60 | 5.97 | | Re-rating to 10.05 MGD |
| Upper Pottsgrove Township | 0.35 | n/a | | Re-rating to .35 MGD |
| West Pottsgrove Township | 0.80 | 1.25 | | Re-rating to 1.60 MGD |
| ROYERSFORD MUNICIPAL SEWER AUTHORITY | 0.54 | 0.38 | 0.21 ³ | |
| Royersford Borough | | 0.21 | 0.11 | 0.09 ³ |
| SCHWENKSVILLE BOROUGH AUTHORITY | | | | |
| Lower Frederick Township (part) | | | | |
| Perkiomen Township (part) | | | | |
| Schwenksville Borough | | | | |
| SOUDERTON MUNICIPAL SEWER AUTHORITY | | | | |
| Franconia Township (part) | 2.00 | 0.97 | 1.03 ³ | |
| Hilltown Township (Bucks County) | | | | |
| Souderton Borough | | | | |
| TELFORD BOROUGH SEWER AUTHORITY | | | | |
| Hilltown Township (Bucks County) | 0.95 | 0.59 | 0.17 | |
| Telford Borough | | | | |
| WEST ROCKHILL TOWNSHIP AUTHORITY | | | | |
| West Rockhill Township (Bucks County) | 2.50 | 2.20 | 0.10 ³ | Re-rating application to 4.50 MGD pending |
| UPPER Gwynedd Township Authority | | | | |
| Lower Gwynedd Township (part) | | 0.003 | | |
| Montgomery Township (part) | | 0.23 | | |
| Upper Gwynedd Township (part) | | 2.40 | | |
| Whitpain Township (part) | | 0.04 | | |
| Worcester Township (part) | | 0.03 | | |

| SEWAGE TREATMENT FACILITY ¹ & Municipalities Served | DER RATED CAPACITY (MGD) | CURRENT FLOW (MGD) | EXCESS CAPACITY ² (MGD) | EXPANSION PLANS |
|--|-----------------------------|-----------------------|---------------------------------------|--|
| UPPER GWYNEDD/TOWANMENCIN MUNICIPAL AUTHORITY | 6.50 | 3.00 | 3.50 ³ | |
| Hatfield Township (part) | n/a | | | |
| Lower Salford Township (part) | 0.07 | | | |
| Towamencin Township | 2.10 | | | |
| Upper Gwynedd Township (part) | 0.90 | | | |
| Worcester Township (part) | n/a | | | |
| UPPER MERION TOWNSHIP MUNICIPAL SEWER AUTHORITY-MATSUNK STP | 5.50 | 2.50 | 1.80 ³ | |
| Bridgeport Borough (part) | 0.01 | | | |
| Tredyffrin Borough (Chester County) | 0.10 | | | |
| Upper Merion Township (part) | 0.12 | | | |
| West Conshohocken Borough (part) | 0.02 | | | |
| UPPER MERION TOWNSHIP MUNICIPAL SEWER AUTHORITY-TROUT RUN STP | 5.00 | 3.75 | 0.00 ³ | Re-rating application to 6.00 MGD pending |
| Tredyffrin Borough (Chester County) | | | | |
| Upper Merion Township (part) | | | | |
| UPPER MONTGOMERY JOINT AUTHORITY | 2.50 | 1.00 | 1.00 ³ | |
| East Greenville Borough | | | | |
| Pennsburg Borough | | | | |
| Red Hill Borough | | | | |
| Upper Hanover Township | | | | |
| UPPER MORELAND-HATBORO JOINT SEWER AUTHORITY | 7.00 | 5.00 | 2.00 ³ | |
| Hatboro Borough | n/a | | | |
| Horsesham Township | 1.96 | | | |
| Upper Dublin Township (part) | n/a | | | |
| Upper Moreland Township (part) | n/a | | | |

| SEWAGE TREATMENT FACILITY ¹ & Municipalities Served | DER RATED CAPACITY (MGD) | CURRENT FLOW (MGD) | EXCESS CAPACITY ² (MGD) | EXPANSION PLANS |
|---|-----------------------------|-----------------------|---------------------------------------|--|
| VALLEY GREEN SEWAGE TREATMENT PLANT Worcester Township (part) | 0.08 | 0.06 | 0.02 | Re-rating to .092 MGD under construction |
| WHITEMARSH TOWNSHIP MUNICIPAL SEWER AUTHORITY Whitemarsh Township (part) | 2.00 | 1.60 | 0.40 ³ | |
| TOTAL | 99.12 | 66.23 | 24.22 | |

¹A portion of Montgomery Township's sewage is treated by the Chalfont-New Britain Township Joint Authority in Bucks County.
²Excess capacity was determined by subtracting current flow from 80% of DER rated capacity unless noted that plant operator supplied data (see text).
³Sewage treatment plant operator supplied data.

SOURCE: OPERATORS OF EACH SEWAGE TREATMENT FACILITY, SPRING 1992.



DELAWARE VALLEY REGIONAL PLANNING COMMISSION, JUNE 1992

PHILADELPHIA SEWAGE TREATMENT FACILITIES INVENTORY

All residents within Philadelphia have public sewer service. Treatment is provided by three plants operated by the city which also treat sewage from eastern Delaware County.

TABLE X
PHILADELPHIA
INVENTORY OF PUBLIC SEWAGE TREATMENT FACILITIES
1992

| SEWAGE TREATMENT PLANT & Areas Served | DER RATED CAPACITY (MGD) | CURRENT FLOW (MGD) | EXCESS CAPACITY ¹ (MGD) | EXPANSION PLANS |
|---|-----------------------------|-----------------------|---------------------------------------|--------------------|
| PHILADELPHIA NORTHEAST WASTEWATER TREATMENT PLANT | 420.00 | 190.00 | 20.00 | |
| Northeast Philadelphia | | | | |
| PHILADELPHIA SOUTHEAST WASTEWATER TREATMENT PLANT | 168.00 | 106.21 | 61.80 | |
| Center City | | | | |
| Germantown | | | | |
| South Philadelphia | | | | |
| Springfield Township (Delaware County) (part) | | | | |
| PHILADELPHIA SOUTHWEST WASTEWATER TREATMENT PLANT | 200.00 | 195.00 | 3.00 | |
| Delaware County (part) | | | | |
| Northwest Philadelphia | | | | |
| Southwest Philadelphia | | | | |
| TOTAL | 788.00 | 491.21 | 84.80 | |

¹Excess capacity was determined by subtracting current flow from 80% of DER rated capacity, unless noted that plant operator supplied data (see text).

SOURCE: OPERATORS OF SEWAGE TREATMENT FACILITIES, SPRING 1992.



DELAWARE VALLEY REGIONAL PLANNING COMMISSION, JUNE 1992

PHILADELPHIA SEWER¹

