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3.0 EXISTING WATER USE INFORMATION

3.1 Community Water Systems

3.1.1 Population¹

Based on the 2000 Census, the total population of the region is 202,909. Table 3.1.1 presents the 2000 Census population information for each locality within the region. Please note that the population information for each county does not include the cities and towns within the respective county. A map showing the population density for the region is included as Figure 3.1.1A. In addition, a map showing the household density for the region is included as Figure 3.1.1B.

Name of Locality	Population
Patrick County	18,446
Henry County	57,155
Pittsylvania County	57,874
City of Danville	48,411
City of Martinsville	15,416
Town of Chatham	1,338
Town of Gretna	1,257
Town of Hurt	1,276
Town of Ridgeway	775
Town of Stuart	961
Total Population for Region	202,909

Table 3.1.1: Summary of Population in WPPDC Region Based on 2000 Census.

¹ 9 VAC 25-780-80 B.1.

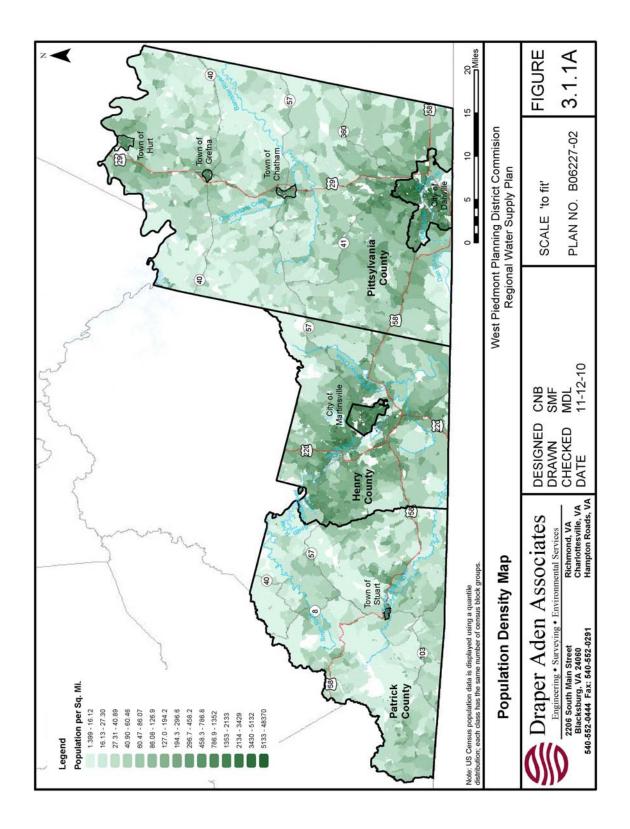
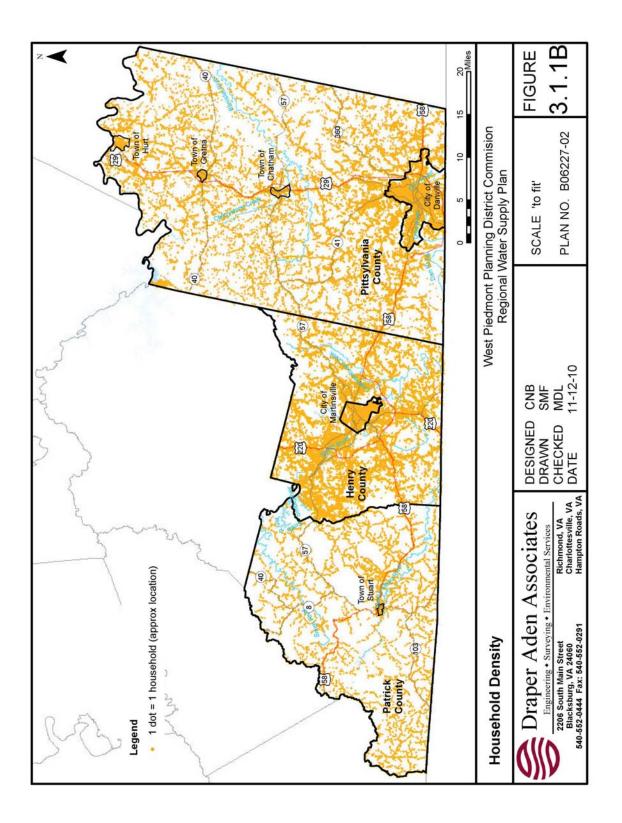


Figure 3.1.1A: Map showing the population density for the Region.

WPPDC Regional Water Supply Plan B06227-04



WPPDC Regional Water Supply Plan B06227-04

3.1.2 Henry County

3.1.2.1 Public Community Water Systems

Henry County owns and the HCPSA operates the public community water systems in Henry County. The HCPSA consists of six community water systems using groundwater, one community water system using a stream intake, and three community water systems that purchase water from another locality. The HCPSA serves approximately 30,961 people with approximately 12,709 connections. Table 3.1.2.1A summarizes each system owned and operated by the HCPSA.

Water System Name	Source	Population Served	Number of Connections			
Upper Smith	Smith River	29,462	12,216			
Sandy Level	Purchased Surface Water	409	108			
Eagle Lane	Groundwater	41	15			
Eastwood Subdivision	Groundwater	182	61			
Edgewood	Purchased Surface Water	253	75			
Leatherwood	Groundwater	56	16			
Mountain Vista Village	Groundwater	100	49			
Pine Forest	Groundwater	53	18			
Pleasant Grove	Groundwater	176	62			
Rockhill Subdivision	Smith River	50	17			
Woodland Ave. Ext.	Purchased Surface Water	179	72			
	Total:	30,961	12,709			

Table 3.1.2.1A: Summary of HCPSA community water systems.

The total average daily withdrawal for the HCPSA is approximately 3.5 MGD with a maximum daily withdrawal of approximately 4.2 MGD, assuming a peak factor of 1.2.

Table 3.1.2.1B summarizes water withdrawal information for the public community water systems owned and operated by the HCPSA.

Water System Name Source		Average Daily Withdrawal (MGD)	Maximum Daily Withdrawal (MGD)
Upper Smith ²	Smith River	3.7052	4.4463
Sandy Level ²	Purchased Surface Water	0.0246	0.0295
Eagle Lane ⁴	Groundwater	0.0034	0.0041
Eastwood Subdivision ³	Groundwater	0.0105	0.0125
Edgewood ^{1,4}	Purchased Surface Water	0.0213	0.0256
Leatherwood ⁴	Groundwater	0.0047	0.0056
Mountain Vista Village ³	Groundwater	0.0696	0.0835
Pine Forest ⁴	Groundwater	0.0045	0.0053
Pleasant Grove ⁴	Groundwater	0.0101	0.0121
Rockhill Subdivision ⁴	Smith River	0.0042	0.0051
Woodland Ave. Ext. ^{1,4}	Purchased Surface Water	0.0151	0.0181
	Total:	3.495	4.194

 Table 3.1.2.1B:
 Summary of Water Withdrawal Amounts for the HCPSA.

Maximum Daily Withdrawal calculated using a peaking factor of 1.2.

¹ Water is purchased from the City of Martinsville for these systems. Water use is not included in totals as it is accounted for in the City's Sales Demand.

² Provided by HCPSA

³ VDEQ Water Use Database (2006-2008)

⁴Based on 75 gpd per person

The total average monthly usage for the HCPSA is approximately 106 MG with annual average water usage of approximately 1,277 MG. Available water use information for the HCPSA community water systems is provided in Table 3.1.2.1C.

Water System Name	Source	Average Monthly (MG)	Average Annual (MG)
Upper Smith ²	Smith River	100.43	1,205.12
Sandy Level ²	Purchased Surface Water	0.67	7.99
Eagle Lane ⁴	Groundwater	0.09	1.12
Eastwood Subdivision ³	Groundwater	0.28	3.40
Edgewood ^{1,4}	Purchased Surface Water	0.58	6.93
Leatherwood ⁴	Groundwater	0.13	1.53
Mountain Vista Village ³	Groundwater	1.89	22.63
Pine Forest ⁴	Groundwater	0.12	1.45
Pleasant Grove ⁴	Groundwater	0.27	3.28
Rockhill Subdivision ⁴	Smith River	0.11	1.37
Woodland Ave. Ext. ^{1,4}	Purchased Surface Water	0.41	4.90
	Total:	106.38	1,276.57

Table 3.1.2.1C: Summary of Water Use Information for the HCPSA.

1. Water is purchased from the City of Martinsville for these systems. Water use is not included in totals as it is accounted for in the City's Sales Demand.

2 Provided by HCPSA

3 VDEQ Water Use Database (2006-2008)

4 Based on 75 gpd per person

The estimated water demand for the HCPSA disaggregated into categories of use is provided in Table 3.1.2.1D.

 Table 3.1.2.1D: Estimated Monthly Water Demand Disaggregated into Categories of Use for the HCPSA.

Water System Name	Residential (MG)	CIL (MG)	Heavy Industrial (MG)	Military (MG)	Production Process Water (MG)	Unaccounted water (MG)	Sales (MG)	Other (MG)	Total (MG)
HCPSA	69.55	15.06	0.00	0.00	5.02	13.12	2.44	0.00	103.99

Information regarding existing in-stream beneficial uses that may be affected by the stream intakes is not available at this time.

3.1.2.2 Private Community Water Systems

There are six private community water systems in Henry County served by groundwater. The private community water systems in Henry County serve approximately 372 people with approximately 177 connections. Table 3.1.2.2 summarizes population and connection information for each private community water system in Henry County.

The estimated annual water use for the private community water systems in Henry County is approximately 13.30 MG. The annual average water use for the private community water systems in Henry County was estimated based on the assumption of 75 gpd of water used per person. The estimated annual average water use for private community water systems is provided in Table 3.1.2.2.

Water System Name	Population Served	Number of Connections	Annual Average (MG)
Fairfield Court	75	26	2.05
Harris Trailer Court	55	25	1.51
Ridgeway Trailer Park	120	59	4.27
Robertson Trailer Park	50	21	1.37
Sherwood Apartments	30	22	0.82
Twin Oaks Mobile Home Park	42	28	3.28
Total	372	177	13.30

 Table 3.1.2.2: Summary of Private Community Water Systems in Henry County.

3.1.3 Patrick County

3.1.3.1 Public Community Water Systems

At the time of the study (2006-2008), Patrick County did not own or operate a public community water system; however, the County recently formed the Patrick County Public Service Authority (PCPSA) and operates a system using two groundwater wells. The PCPSA initially served approximately 206 customers with a capacity of 0.772 MGD. The WTP is currently operating at approximately 0.285 MGD. As Phase II begins development, the PCPSA anticipates additional customers and the total system capacity is

expected to increase to approximately 0.9 MGD. More detailed information regarding the PCPSA water system will be provided in the next update of the Plan.

3.1.3.2 Private Community Water Systems

There are two private community water systems in Patrick County served by groundwater. The private community water systems in Patrick County serve approximately 110 people with approximately 34 connections. Table 3.1.3.2 summarizes population and connection information for each private community water system in Patrick County.

The estimated annual water use for the private community water systems in Patrick County is approximately 3.01 MG. The annual average water use for the private community water systems in Patrick County was estimated based on 75 gpd per person. The estimated annual average water use for private community water systems is provided in Table 3.1.3.2.

Water System Name	Population Served	Number of Connections	Annual Average (MG)	
Layman Water Company	60	33	1.64	
Primland Community Waterworks	50	1	1.37	
Total	110	34	3.01	

 Table 3.1.3.2:
 Summary of Private Community Water Systems in Patrick County.

Information regarding existing in-stream beneficial uses that may be affected by the stream intakes is not available at this time.

3.1.4 Pittsylvania County

3.1.4.1 Public Community Water Systems

The PCSA owns and operates the public community water systems in Pittsylvania County. The PCSA consists of five community water systems using groundwater and 10 community water systems that purchase water from another locality. The PCSA serves approximately 13,707 people with approximately 3,915 connections. Table 3.1.4.1A summarizes each system owned and operated by the PCSA.

Water System Name	Source	Population Served	Number of Connections
Mount Zion	Groundwater	134	50
Robin Court	Groundwater	43	18
Vista Pointe Landing	Groundwater	128	48
Wayside Subdivision No. 1	Groundwater	56	23
Wayside Subdivision No. 2	Groundwater	43	19
Greenwood Drive	Purchase Water	-	-
Mount Cross Road	Purchase Water	197	112
Mount Herman	Purchase Water	4349	1560
Route 58 West	Purchase Water	1200	516
Woodlake/Route 29	Purchase Water	1963	800
Ringgold Industrial Park	Purchase Water	175	73
Tightsqueeze	Purchase Water	38	19
Grit Water	Purchase Water	-	-
Route 360	Purchase Water	-	-
West Gretna Road/Route 40	Purchase Water	25	9
	Total	8,351	3,247

 Table 3.1.4.1A:
 Summary of PCSA community water systems.

The total average daily withdrawal for the PCSA is approximately 0.657 MGD with a maximum daily withdrawal of approximately 0.788 MGD, assuming a peak factor of 1.2. Table 3.1.4.1B summarizes water withdrawal information for the public community water systems owned and operated by the PCSA.

Water System Name	Source	Average Daily Withdrawal (MGD)	Maximum Daily Withdrawal (MGD)
Mount Zion	Groundwater	0.007	0.008
Robin Court	Groundwater	0.006	0.007
Vista Pointe Landing	Groundwater	0.003	0.004
Wayside Subdivision No. 1	Groundwater	0.003	0.004
Wayside Subdivision No. 2	Groundwater	0.002	0.002
Greenwood Drive	Purchase Water	0.002	0.002
Mount Cross Road	Purchase Water	0.019	0.023
Mount Herman	Purchase Water	0.297	0.356
Route 58 West	Purchase Water	0.078	0.094

 Table 3.1.4.1B:
 Summary of Water Withdrawal Information for PCSA.

Water System Name	Source	Average Daily Withdrawal (MGD)	Maximum Daily Withdrawal (MGD)
Woodlake/Route 29	Purchase Water	0.139	0.167
Ringgold Industrial Park	Purchase Water	0.085	0.102
Tightsqueeze	Purchase Water	0.004	0.005
Grit Water	Purchase Water	0.010	0.012
Route 360	Purchase Water	0.002	0.002
West Gretna Road/Route 40	Purchase Water	0.000	0.000
	Total	0.657	0.788

Maximum Daily Withdrawal calculated using a peaking factor of 1.2.

The total average monthly usage for the PCSA is approximately 19.94 MG with an annual average water usage information of approximately 240.06 MG. Available water use information for the PCSA community water systems is provided in Table 3.1.4.1C.

Water System Name	Source	Average Monthly (MG)	Average Annual (MG)
Mount Zion	Groundwater	0.218	2.62
Robin Court	Groundwater	0.171	2.05
Vista Pointe Landing	Groundwater	0.100	1.20
Wayside Subdivision No. 1	Groundwater	0.100	1.20
Wayside Subdivision No. 2	Groundwater	0.008	0.90
Greenwood Drive	Purchase Water	0.062	0.74
Mount Cross Road	Purchase Water	0.568	6.82
Mount Herman	Purchase Water	9.025	108.30
Route 58 West	Purchase Water	2.388	28.65
Woodlake/Route 29	Purchase Water	4.233	50.80
Ringgold Industrial Park	Purchase Water	2.590	31.08
Tightsqueeze	Purchase Water	0.113	1.36
Grit Water	Purchase Water	0.292	3.50
Route 360	Purchase Water	0.070	0.84
West Gretna Road/Route 40	Purchase Water	0.000	0.00
	Total	19.938	240.06

 Table 3.1.4.1C:
 Summary of Water Use Information for PCSA.

The estimated water demand for the PCSA disaggregated into categories of use is provided in Table 3.1.4.1D.

Table 3.1.4.1D: Estimated Monthly Water Demand Disaggregated into Categories of Use for the PCSA.

Water System Name	Residential (MG)	CIL (MG)	Heavy Industrial (MG)	Production Process Water (MG)	Unaccounted- for-water (MG)	Sales (MG)	Other (MG)	Other (Fire Lines) (MG)	Total (MG)
PCSA	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66

3.1.4.2 Private Community Water Systems

There are seven private community water systems in Pittsylvania County served by groundwater. The private community water systems in Pittsylvania County serve approximately 511 people with approximately 290 connections. Table 3.1.4.1 summarizes population and connection information for each private community water system in Pittsylvania County.

The estimated annual water use for the private community water systems in Pittsylvania County is approximately 14.0 MG. The annual average water use for the private community water systems in Pittsylvania County was estimated based on 75 gpd of water per person. The estimated annual average water use for private community water systems is provided in Table 3.1.4.2.

Water System Name	Population Served	Number of Connections	Annual Average (MG)
Bervich MHP	62	44	1.70
Crestview Trailer Park	40	19	1.10
Cascades Mobile Estates	100	33	2.74
Hillcrest MHP	78	53	2.14
Meadowbrook Trailer Park	87	50	2.38
Powell's Trailer Court	64	18	1.75
Woodroam Subdivision	80	73	2.19
Total	511	290	14.00

 Table 3.1.4.2:
 Summary of Private Community Water Systems in Pittsylvania County.

Information regarding existing in-stream beneficial uses that may be affected by the stream intakes is not available at this time.

3.1.5 City of Danville

The City of Danville owns and operates the public community water system in the City of Danville. The City of Danville community water system serves approximately 46,988 people with approximately 18,272 connections. The average daily withdrawal for the water system is approximately 6.36 MGD and a maximum daily withdrawal of 10.18, assuming a peaking factor of 1.6. The average monthly water use for the system is approximately 193.66 MG with an annual average of approximately 2,323.95 MG. The estimated water demand for the City of Danville disaggregated into categories of use is provided in Table 3.1.5.

Table 3.1.5: Estimated Monthly Water Demand Disaggregated into Categories of Use for the City of Danville.

Water System Name	Residential (MG)	CIL (MG)	Heavy Industrial (MG)	Production Process Water (MG)	Unaccounted- for-water (MG)	Sales (MG)	Other (MG)	Other (Fire Lines) (MG)	Total (MG)
City of Danville	68.94	54.53	30.28	0.00	16.66	18.92	4.04	0.29	193.66

Information regarding existing in-stream beneficial uses that may be affected by the stream intakes is not available at this time.

3.1.6 City of Martinsville

The City of Martinsville owns and operates the public community water system in the City of Martinsville. The City of Martinsville community water system serves approximately 16,000 people with approximately 7,312 connections. The average daily withdrawal for the water system is approximately 1.94 MGD and a maximum daily withdrawal of 2.32, assuming a peaking factor of 1.2. The average monthly water use for the system is approximately 58.91 MG with an annual average of approximately 706.86 MG. The estimated water demand for the City of Martinsville disaggregated into categories of use is provided in Table 3.1.6.

Water System Name	Residential (MG)	CIL (MG)	Heavy Industrial (MG)	Military (MG)	Production Process Water (MG)	Unaccounted - for-water (MG)	Sales (MG)	Other (MG)	Total (MG)
City of									
Martinsville	31.96	17.96	0.00	0.00	0.50	7.50	0.99	0.00	58.91

Table 3.1.6: Estimated Monthly Water Demand Disaggregated into Categories of Use for the City of Martinsville.

Information regarding existing in-stream beneficial uses that may be affected by the stream intakes is not available at this time.

3.1.7 Town of Chatham

The Town of Chatham owns and operates the public community water system in the Town of Chatham. The Town of Chatham community water system serves approximately 2,500 people with approximately 952 connections. The average daily withdrawal for the water system is approximately 0.415 MGD and a maximum daily withdrawal of 0.498, assuming a peaking factor of 1.2. The average monthly water use for the system is approximately 12.63 MG with an annual average of approximately 151.55 MG. The estimated water demand for the Town of Chatham disaggregated into categories of use is provided in Table 3.1.7.

 Table 3.1.7: Estimated Monthly Water Demand Disaggregated into Categories of Use for the Town of Chatham.

Water System Name	Residential (MG)	CIL (MG)	Heavy Industrial (MG)	Military (MG)	Production Process Water (MG)	Unaccounted- for-water (MG)	Sales (MG)	Other (MG)	Total (MG)
Town of Chatham	7.90	4.62	0.00	0.00	0.00	0.00	0.11	0.00	12.62
Chatham	7.89	4.62	0.00	0.00	0.00	0.00	0.11	0.00	12.6

Information regarding existing in-stream beneficial uses that may be affected by the stream intakes is not available at this time.

3.1.8 Town of Gretna

The Town of Gretna owns and operates the public community water system in the Town of Gretna. The Town of Gretna community water system serves approximately 2,500 people with approximately 600 connections. The average daily withdrawal for the water system is approximately 0.204 MGD and a maximum daily withdrawal of 0.245,

assuming a peaking factor of 1.2. The average monthly water use for the system is approximately 6.21 MG with an annual average of approximately 74.52 MG. The estimated water demand for the Town of Gretna disaggregated into categories of use is provided in Table 3.1.8.

 Table 3.1.8: Estimated Monthly Water Demand Disaggregated into Categories of Use for the Town of Gretna.

Water System Name	Residential (MG)	CIL (MG)	Heavy Industrial (MG)	Military (MG)	Production Process Water (MG)	Unaccounted- for-water (MG)	Sales (MG)	Other (MG)	Total (MG)
Town of Gretna	3.42	1.86	0.00	0.00	0.31	0.06	0.56	0.00	6.21

Information regarding existing in-stream beneficial uses that may be affected by the stream intakes is not available at this time.

3.1.9 Town of Hurt

The Town of Hurt owns and operates the public community water system in the Town of Hurt. The Town of Hurt community water system serves approximately 1,300 people with approximately 616 connections. The average daily withdrawal for the water system is approximately 0.099 MGD and a maximum daily withdrawal of 0.118, assuming a peaking factor of 1.2. The average monthly water use for the system is approximately 3.0 MG with an annual average of approximately 36.0 MG. The estimated water demand for the Town of Hurt disaggregated into categories of use is provided in Table 3.1.9.

 Table 3.1.9: Estimated Monthly Water Demand Disaggregated into Categories of Use for the Town of Hurt.

Water System Name	Residential (MG)	CIL (MG)	Heavy Industrial (MG)	Military (MG)	Production Process Water (MG)	Unaccounted- for-water (MG)	Sales (MG)	Other (MG)	Total (MG)
Town of Hurt	2.10	0.54	0.00	0.00	0.06	0.30	0.00	0.00	3.0

Information regarding existing in-stream beneficial uses that may be affected by the stream intakes is not available at this time.

3.1.10 Town of Ridgeway

The Town of Ridgeway does not own or operate a public community water system and is served by the HCPSA. Water use information for the HCPSA is discussed in Section 3.1.2.

Information regarding existing in-stream beneficial uses that may be affected by the stream intakes is not available at this time.

3.1.11 Town of Stuart

The Town of Stuart owns and operates the public community water system in the Town of Stuart. The Town of Stuart community water system serves approximately 921 people with approximately 665 connections. The average daily withdrawal for the water system is approximately 0.31 MGD and a maximum daily withdrawal of 0.37, assuming a peaking factor of 1.2. The average monthly water use for the system is approximately 9.39 MG with an annual average of approximately 112.72 MG. The estimated water demand for the Town of Stuart disaggregated into categories of use is provided in Table 3.1.11.

Table 3.1.11: Estimated Monthly Water Demand Disaggregated into C	Categories of Use for the Town of Stuart.
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Water System Name	Residential (MG)	CIL (MG)	Heavy Industrial (MG)	Military (MG)	Production Process Water (MG)	Unaccounted- for-water (MG)	Sales (MG)	Other (MG)	Total (MG)
Town of Stuart	6.58	1.69	0.00	0.00	0.19	0.94	0.00	0.00	9.39

Information regarding existing in-stream beneficial uses that may be affected by the stream intakes is not available at this time.

3.2 Estimate of Water Used by Self-Supplied, Non-Agricultural Users of More than 300,000 Gallons per Month of Surface and Groundwater Inside the Service Areas of the Community Water Systems²

Available water use information for self-supplied, non-agricultural users inside the service area of community water systems in the region was generally very limited.

² 9 VAC 25-780-80 C.

Available information is discussed in the following sections and presented in the tables below.

Information for self-supplied, non-agricultural users in the region was provided by VDH and VDEQ. Information for many of the self-supplied, non-agricultural users greater than 300,000 gallons of water per month was available through VDEQ's Water Use Database. For self-supplied, non-agricultural users not included in VDEQ's Water Use Database, water use information was estimated based on one of the following assumptions: groundwater well average daily withdrawal, VDH permit capacity, SCAT regulations, or the number of people served at 75 gpd.

3.2.1 Henry County

There are six known self-supplied, non-agricultural users inside the HCPSA service area. Estimated water use information for the self-supplied, non-agricultural users inside the HCPSA service area are identified in Table 3.2.1.

Name	Use Category	Average Daily Withdrawal (MGD)	Estimated Annual Average Use (MG)
Bassett Mirror Co.	MAN	0.002	0.68
Virginia Glass Products Corp	COM	0.007	2.48
Bassett Furniture Ind.	MAN	0.126	45.96
Boxley Materials Co.	MIN	0.160	58.60
CP Films Inc.	MAN	1.047	382.50
Total		1.342	490.22

 Table 3.2.1: Estimated Water Use for Self-Supplied, Non-Agricultural Users Inside HCPSA

 Service Area.

3.2.2 Patrick County

Patrick County does not own or operate a public community water system; however, there are two private community water systems in Patrick County. There are no known self-supplied, non-agricultural users of more than 300,000 gallons per month of water inside the service area of the two private community water systems.

3.2.3 Pittsylvania County

There are no known self-supplied, non-agricultural users of more than 300,000 gallons per month of water inside the PCSA water system service area.

3.2.4 City of Danville

There are two known self-supplied, non-agricultural users of more than 300,000 gallons per month inside the City of Danville water system service area: Dan River Inc. and Glen Oak Inc. The total estimated average annual water use for these two self-supplied, non-agricultural users is approximately 267.65 MG. Dan River Inc. utilizes an intake on the Dan River and the estimated average annual water use was approximately 261.70 MG in 2006 according to the VDEQ Water Use Database. Glen Oak Inc. utilizes an intake on Rutledge Creek and the estimated average annual water use was approximately 5.95 MG in 2006 according to the VDEQ Water Use Database.

3.2.5 City of Martinsville

There are no known self-supplied, non-agricultural users of more than 300,000 gallons per month of water inside the City of Martinsville water system service area.

3.2.6 Town of Chatham

There are no known self-supplied, non-agricultural users of more than 300,000 gallons per month of water inside the Town of Chatham water system service area.

3.2.7 Town of Gretna

There are no known self-supplied, non-agricultural users of more than 300,000 gallons per month of water inside the Town of Gretna water system service area.

3.2.8 Town of Hurt

There are no known self-supplied, non-agricultural users of more than 300,000 gallons per month of water inside the Town of Hurt water system service area.

3.2.9 Town of Ridgeway

There are no known self-supplied, non-agricultural users of more than 300,000 gallons per month of water inside the Town of Ridgeway water system service area.

3.2.10 Town of Stuart

There are no known self-supplied, non-agricultural users of more than 300,000 gallons per month of water inside the Town of Stuart water system service area.

3.3 Estimate of Water Used by Self-Supplied, Non-Agricultural Users of More than 300,000 Gallons per Month of Surface and Groundwater Outside the Service Areas of the Community Water Systems³

Available water use information for self-supplied, non-agricultural users outside the service area of community water systems in the region was generally very limited. Available information is discussed in the following sections and presented in the tables below.

Information for self-supplied, non-agricultural users in the region was provided by VDH and VDEQ. Information for many of the self-supplied, non-agricultural users greater than 300,000 gallons of water per month was available through VDEQ's Water Use Database. For self-supplied, non-agricultural users not included in VDEQ's Water Use Database, water use information was estimated based on one of the following assumptions: groundwater well average daily withdrawal, VDH permit capacity, SCAT regulations, or the number of people served at 75 gpd.

3.3.1 Henry County

There are nine known self-supplied, non-agricultural users outside the HCPSA service area. Estimated water use information for self-supplied, non-agricultural user inside the HCPSA service area is presented in Table 3.3.1.

³ 9 VAC 25-780-80 C.

Name	Use Category	Average Daily Withdrawal (MGD)	Estimated Annual Average Use (MG)
Beaver Hills Golf Club	СОМ	0.0002	0.08
Blue Ridge Airport	COM	0.0003	0.10
Garfield's Place	COM	0.0018	0.66
Philpott RES - Bowens Creek Beach	РН	0.0009	26.28
Rangeley Mini Mart & Deli	СОМ	0.0002	0.08
Ridgeway Café	COM	0.0009	0.33
Chatmoss County Club	IRR	0.053	19.30
Forest Park Country Club	СОМ	0.026	9.50
Stanley Furniture Co.	MAN	0.041	15.07
Total		0.1243	71.40

 Table 3.3.1: Estimated Water Use for Self-Supplied, Non-Agricultural Users Outside

 HCPSA Service Area.

3.3.2 Patrick County

Patrick County does not own or operate a public community water system; however, there are two private community water systems in Patrick County. There are 33 known self-supplied, non-agricultural users outside the service area of the two private community water systems in Patrick County. Estimated water use information for the self-supplied, non-agricultural users outside the Patrick County service area is presented in Table 3.3.2.

Name	Use Category	Average Daily Withdrawal (MGD)	Estimated Annual Average Use (MGD)
Aerial Machine and Tool	COM	0.002	0.64
Blue Ridge Elementary School	PWS	0.005	2.00
Hardin Reynolds Elementary School	PWS	0.019	7.00
Meadows of Dan Elementary School	PWS	0.002	0.39
Micrometrics Systems	СОМ	0.018	6.42
Modular Wood Systems	COM	0.001	0.25

 Table 3.3.2: Estimated Water Use for Self-Supplied, Non-Agricultural Users Outside

 Patrick County Service Area.

Name	Use Category	Average Daily Withdrawal (MGD)	Estimated Annual Average Use (MGD)
Patrick County High School	PWS	0.011	2.95
Patrick Springs Elementary School	PWS	0.003	0.85
Hane's Brand Inc.	COM	0.145	52.86
Woolwine Elementary School	PWS	0.003	0.79
United Elastic	MAN	0.240	87.60
103 Sure Stop	PWS	0.0002	0.09
Bethel Campground	PWS	0.001	0.09
Blue Ridge Motel	PWS	0.007	2.37
Boyd's Restaurant	PWS	0.0007	0.26
Café of Claudville	PWS	0.0007	0.25
Dear Run Campground	PWS	0.003	0.29
Dry Pond Café	PWS	0.0007	0.25
Groundhog Mountain Water & Sewer Company	PWS	0.027	9.99
Higher Ground Summer Camp	PWS	0.002	0.15
Howell's Grocery	PWS	0.0014	0.49
Lighthouse Grill	PWS	0.0014	0.49
Meadows of Dan Camground	PWS	0.011	4.09
Mountain House Restaurant	PWS	0.0007	0.25
Phillpott RES - Goose Point - Lower Building	PWS	0.009	3.33
Phillpott RES - Ryans Branch - Picnic	PWS	0.012	4.21
Phillpott RES - Goose Point - Upper Building	PWS	0.008	2.80
Primland Golf Maintenance Facility	PWS	0.004	1.31
Primland Resort	PWS	0.0005	0.16
Primland Interim Golf House	PWS	0.003	1.05
Slippers Steak & Seafood	PWS	0.0009	0.33
Springs of Life Camp	PWS	0.008	0.74
Willville Campground	PWS	0.0003	0.11
	Total	0.549	194.85

3.3.3 Pittsylvania County

There are 40 known self-supplied, non-agricultural users outside the PCSA service area. Estimated water use information for the self-supplied, non-agricultural users outside the PCSA service area is presented in Table 3.3.3.

Name	Use Category	Average Daily Withdrawal (MGD)	Estimated Annual Average Use (MG)
Cook Composites & Polymer Company	MAN	0.016	6.00
Dan River High School	COM	0.0077	1.75
Dan River Middle School	СОМ	0.0067	1.75
Donna's Diner	СОМ	0.0055	1.43
	СОМ	0.003	1.23
Kentucky Elementary School	СОМ	0.0056	1.47
Kid Konnection Child Development	СОМ	0.0040	1.29
Little Blessings Child Care, Inc.	СОМ	0.0003	0.08
Mount Airy Elementary School	СОМ	0.0025	0.65
Smith Adult Care	СОМ	0.0003	0.08
Stony Mill Elementary School	СОМ	0.0042	1.10
Tunstall High School	СОМ	0.0096	2.52
Tunstall Middle School	СОМ	0.0062	1.62
Union Hall Elementary School	СОМ	0.0082	0.78
58 Truck Stop	СОМ	0.0014	0.49
58 West Auto Auction	СОМ	0.0003	0.091

 Table 3.3.3: Estimated Water Use for Self-Supplied, Non-Agricultural Users Outside

 PCSA Service Area.

N	U. C.	Average Daily Withdrawal	Estimated Annual Average
Name	Use Category	(MGD)	Use (MG)
Altavista Country Club			
	COM	0.0004	0.13
Arrowhead Campground #1 & #3	СОМ	0.0025	0.23
Arrowhead Campground #2	СОМ	0.0025	0.23
BB's Place			
	СОМ	0.0009	0.33
Beacon Ridge Retreat		0.0007	
Center	СОМ	0.00001	0.0045
C & E Restaurant		0.00001	0.0045
	СОМ	0.0018	0.66
Cedars Country Club		0.0010	0.00
County Club	СОМ	0.0005	0.20
Cherrystone Youth Camp		0.0005	0.20
cherrystone routin cump	СОМ	0.0036	0.33
Cool Branch Bar & Grill		0.0030	0.35
Cool Branch Bar & Offi	COM	0.0000	0.22
Corner Café	COM	0.0009	0.33
Corner Cale	0016	0.0000	0.00
Ellshorn Lalsa Comp #1	COM	0.0009	0.33
Elkhorn Lake Camp #1 and #2		0.0000	0.04
	COM	0.0038	0.34
Elkhorn Lake Camp #3 and #4			
	COM	0.0038	0.34
Harvey's Grocery			
	COM	0.0009	0.33
Jips Diner			
	COM	0.0005	0.16
Latrelle's Restaurant			
	СОМ	0.0018	0.66
Leesville Dam Picnic			
Area	СОМ	0.0005	0.18
Lumpkin's Marina			
	СОМ	0.0007	0.25
Paradise Lake			
Campground	СОМ	0.0130	1.19
Pit Stop Marina & Grill			
	COM	0.0004	0.13
Pittsylvania Christian			
Camp	COM	0.0065	0.59
Ringgold Golf Club			
	СОМ	0.0005	0.16

Name	Use Category	Average Daily Withdrawal (MGD)	Estimated Annual Average Use (MG)
Smith Mountain Dam Picnic Area	СОМ	0.0010	0.37
Smith Mountain Dock & Lodge	СОМ	0.0009	0.33
Smith Mountain Dam Visitors Center	СОМ	0.0010	0.37
Smith Mountain Lake RV Campground	СОМ	0.0010	0.09
	Total:	0.12	28.83

3.3.4 City of Danville

There are no known self-supplied, non-agricultural users of more than 300,000 gallons per month of water outside the City of Danville water system service area.

3.3.5 City of Martinsville

There are no known self-supplied, non-agricultural users of more than 300,000 gallons per month of water outside the City of Martinsville water system service area.

3.3.6 Town of Chatham

There are no known self-supplied, non-agricultural users of more than 300,000 gallons per month of water outside the Town of Chatham water system service area.

3.3.7 Town of Gretna

There are no known self-supplied, non-agricultural users of more than 300,000 gallons per month of water outside the Town of Gretna water system service area.

3.3.8 Town of Hurt

There are no known self-supplied, non-agricultural users of more than 300,000 gallons per month of water outside the Town of Hurt water system service area.

3.3.9 Town of Ridgeway

There are no known self-supplied, non-agricultural users of more than 300,000 gallons per month of water outside the Town of Ridgeway water system service area.

3.3.10 Town of Stuart

There are no known self-supplied, non-agricultural users of more than 300,000 gallons per month of water outside the Town of Stuart water system service area.

3.4 Estimate of Water used by Self-Supplied, Agricultural Users of More than 300,000 Gallons per Month of Surface and Groundwater Outside the Service Areas of the Community Water Systems⁴

Agricultural water usage information for users of more than 300,000 gallons per month of water outside the service areas of community water systems was limited or unavailable. General agricultural information as well as available information on livestock (e.g., number of head of cattle) and crops (e.g., type of crop planted) for the region was collected from the USDA NASS. This information was used to make a general estimate of water used by self-supplied agricultural users in the region. Please note that the USDA 2002 Census of Agriculture and NASS do not provide information for cities and towns. While this information does not provide information on specific agricultural users within the region, it provides a good starting point for providing estimates on agricultural use in the region.

3.4.1 Henry County

The estimated volume of water used by self-supplied, agricultural users in Henry County is approximately 269.31 MG per year. The volume of water used by livestock was estimated at approximately 34.99 MG per year and the volume of water used for crop irrigation was estimated at approximately 234.33 MG per year. The volume of water estimated to be used for livestock in Henry County is shown in Table 3.4.1A.

⁴ 9 VAC 25-780-80 D.

WPPDC Regional Water Supply Plan B06227-04

Type of Livestock	# in 2002	Number of Farms	Gallons of Water Needed per Day per Animal	Estimated Monthly Usage (gal)	Estimated Annual Usage (gal)
Beef Cattle & Calves	7,464	166	12.00	2,726,450	32,717,399
Milk Cows	0	2	35.00	0	0
Hogs & Pigs	0	2	5.00	0	0
Sheep & Lambs	0	3	2.00	0	0
Poultry Layers	306	15	0.06	559	6,707
Poultry Broilers	0	0	0.06	0	0
Horses	516	_	12.00	188,484	2,261,814
Goats	192	_	0.00	0	0
				Total:	34,985,919

Table 3.4.1A: Volume of Water Estimated for Livestock in Henry County.

The volume of water estimated to be used for crop irrigation in Henry County is shown in Table 3.4.1B.

Type of Crop	Acres in 2002	Acres Irrigated	Number of Farms	Approximate Irrigation (in/acre)	Total Annual Irrigation (gal)
Corn for Grain	51	0	6	0	0
Corn for Silage	62	0	3	0	0
Forage	9,265	0	181	0	0
Wheat for Grain	0	0	0	0	0
Oats for Grain	0	0	1	0	0
Barley for Grain	0	0	1	0	0
Cotton	0	0	0	0	0
Soybean	0	0	0	0	0
Tobacco	164	82	19	25	55,662,420
Vegetables	20	20	6	15	8,145,720
Potatoes	0	0	1	15	0
Unknown	416	314	16	20	170,517,072
				Total:	234,325,212

Table 3.4.1B: Volume of Water Estimated for Crop Irrigation in Henry County.

3.4.2 Patrick County

The estimated volume of water used by self-supplied, agricultural users in Patrick County is approximately 271.27 MG per year. The volume of water used by livestock was

estimated at approximately 50.65 MG per year and the volume of water used for crop irrigation was estimated at approximately 220.61 MG per year. The volume of water estimated to be used for livestock in Patrick County is shown in Table 3.4.2A.

Type of Livestock	# in 2002	Number of Farms	Gallons of Water Needed per Day per Animal	Estimated Monthly Usage (gal)	Estimated Annual Usage (gal)
Beef Cattle & Calves	8,540	372	12.00	3,119,491	37,433,894
Milk Cows	805	15	35.00	857,647	10,291,764
Hogs & Pigs	63	12	5.00	9,589	115,063
Sheep & Lambs	297	6	2.00	18,081	216,976
Poultry Layers	230	14	0.06	420	5,041
Poultry Broilers	0	0	0.06	0	0
Horses	591	-	12.00	215,880	2,590,566
Goats	404	-	0.00	0	0
				Total:	50,653,305

 Table 3.4.2A: Volume of Water Estimated for Livestock in Patrick County.

The volume of water estimated to be used for crop irrigation in Patrick County is shown in Table 3.4.2B.

Type of Crop	Acres in 2002	Acres Irrigated	Number of Farms	Approximate Irrigation (in/acre)	Total Annual Irrigation (gal)
Corn for Grain	634	0	28	0	0
Corn for Silage	1,080	0	19	0	0
Forage	16,601	0	407	0	0
Wheat for Grain	-	0	3	0	0
Oats for Grain	-	0	-	0	0
Barley for Grain	-	0	-	0	0
Cotton	-	0	-	0	0
Soybean	36	0	6	0	0
Tobacco	615	325	30	25	220,613,250
Vegetables	169	0	34	15	0
Potatoes	28	0	16	15	0
Unknown Acres Irrigated (assume tobacco)	325	0	9	20	0
		2		Total:	220,613,250

 Table 3.4.2B: Volume of Water Estimated for Crop Irrigation in Patrick County.

3.4.3 Pittsylvania County

The estimated volume of water used by self-supplied, agricultural users in Pittsylvania County is approximately 3,098.07 MG per year. The volume of water used by livestock was estimated at approximately 144.71 MG per year and the volume of water used for crop irrigation was estimated at approximately 2,953.37 MG per year. The volume of water estimated to be used for livestock in Pittsylvania County is shown in Table 3.4.3A.

Type of Livestock	# in 2002	Number of Farms	Gallons of Water Needed per Day per Animal	Estimated Monthly Usage (gal)	Estimated Annual Usage (gal)
Beef Cattle & Calves	20,542	735	12.00	7,503,582	90,042,981
Milk Cows	3,362	34	35.00	3,581,875	42,982,498
Hogs & Pigs	3,686	21	5.00	561,009	6,732,110
Sheep & Lambs	281	15	2.00	17,107	205,287
Poultry Layers	0	38	0.06	0	0
Poultry Broilers	0	6	0.06	0	0
Horses	1,082	-	12.00	395,233	4,742,796
Goats	0	0	0.00	0	0
				Total:	144,705,672

Table 3.4.3A: Volume of Water Estimated for Livestock in Pittsylvania County.

The volume of water estimated to be used for crop irrigation in Pittsylvania County is shown in Table 3.4.3B.

Type of Crop	Acres in 2002	Acres Irrigated	Number of Farms	Approximate Irrigation (in/acre)	Total Annual Irrigation (gal)
Corn for Grain	2,009	0	86	0	0
Corn for Silage	3,933	0	39	0	0
Forage	43,906	0	813	0	0
Wheat for Grain	6,178	0	133	0	0
Oats for Grain	457	0	32	0	0
Barley for Grain	414	0	10	0	0
Cotton	0	0	0	0	0
Soybean	3,068	0	54	0	0
Tobacco	280	140	6,203	25	95,033,400
Vegetables	66	66	16	15	26,880,876

Table 3.4.3B: Volume of Water Estimated for Crop Irrigation in Pittsylvania County.

Type of Crop	Acres in 2002	Acres Irrigated	Number of Farms	Approximate Irrigation (in/acre)	Total Annual Irrigation (gal)
Potatoes	744	744	7	15	303,020,784
Unknown	5,606	4,656	235	20	2,528,431,488
				Total:	2,953,366,548

3.4.4 City of Danville

There are no known self-supplied, agricultural users of more than 300,000 gallons per month of water outside the City of Danville water system service area.

3.4.5 City of Martinsville

There are no known self-supplied, agricultural users of more than 300,000 gallons per month of water outside the City of Martinsville water system service area.

3.4.6 Town of Chatham

There are no known self-supplied, agricultural users of more than 300,000 gallons per month of water outside the Town of Chatham water system service area.

3.4.7 Town of Gretna

There are no known self-supplied, agricultural users of more than 300,000 gallons per month of water outside the Town of Gretna water system service area.

3.4.8 Town of Hurt

There are no known self-supplied, agricultural users of more than 300,000 gallons per month of water outside the Town of Hurt water system service area.

3.4.9 Town of Ridgeway

There are no known self-supplied, agricultural users of more than 300,000 gallons per month of water outside the Town of Ridgeway water system service area.

3.4.10 Town of Stuart

There are no known self-supplied, agricultural users of more than 300,000 gallons per month of water outside the Town of Stuart water system service area.

3.5 Estimate of Water used by Self-Supplied Users of Less than 300,000 Gallons per Month of Groundwater and an Estimate of the Total Average Annual Use Outside the Service Areas of the Community Water Systems⁵

To determine an estimate of residences and businesses that are self-supplied and served by individual groundwater wells withdrawing less than 300,000 gallons per month, the population served by both public and private community water systems was determined. The population served by public community water systems was provided by each jurisdiction or provided by VDH and based on 2009 data. The population served by private community water systems was provided by VDH based on 2009 data. The total population for each county and city was provided by the 2000 US Census Bureau. The total population for each town was provided by the town or US Census Bureau and subtracted from the county population.

The population served by individual wells was estimated by subtracting the population served by public and private community water systems from the total population. It is important to note that the total county population does not include the towns within the respective county. Water used by self-supplied, individual well users was estimated based on 75 gallons of water per day per person.

3.5.1 Henry County

Estimated water used by self-supplied, residential users on individual wells using less than 300,000 gallons per month of groundwater in Henry County is presented in Table 3.5.1. Please note that the City of Martinsville serves approximately 584 people in Henry County. The additional 584 people are included in the 'Population Served by Public CWS' for Henry County.

⁵ 9 VAC 25-780-80 E.

2000 Census Population	Population Served by Public CWS	Estimated Population Served by Private CWS	Estimated Population Served by Individual Wells	Estimated Annual Average Water Use (MG)
57,155	31,501	472	25,182	689.83

 Table 3.5.1: Estimated Water Use for Individual Well Users in Henry County.

3.5.2 Patrick County

Estimated water used by self-supplied, residential users on individual wells using less than 300,000 gallons per month of groundwater in Patrick County is presented in Table 3.5.2.

 Table 3.5.2: Estimated Water Use for Individual Well Users in Patrick County.

2000 Census Population	Population Served by Public CWS	Estimated Population Served by Private CWS	Estimated Population Served by Individual Wells	Estimated Annual Average Water Use (MG)
18,446	0	110	18,336	502.29

3.5.3 Pittsylvania County

Estimated water used by self-supplied, residential users on individual wells using less than 300,000 gallons per month of groundwater in Pittsylvania County is presented in Table 3.5.3. Please note that the towns of Chatham, Gretna, and Hurt serve approximately 2,429 people in Pittsylvania County. The additional 2,429 people are included in the 'Population Served by Public CWS' for Pittsylvania County.

 Table 3.5.3: Estimated Water Use for Individual Well Users in Pittsylvania County.

2000 Census Population	Population Served by Public CWS	Estimated Population Served by Private CWS	Estimated Population Served by Individual Wells	Estimated Annual Average Water Use (MG)
57,874	16,136	461	41,277	1130.73

3.5.4 City of Danville

Estimated water used by self-supplied, residential users on individual wells using less than 300,000 gallons per month of groundwater in the City of Danville is presented in Table 3.5.4.

2000 Census Population	Population Served by Public CWS	Estimated Population Served by Private CWS	Estimated Population Served by Individual Wells	Estimated Annual Average Water Use (MG)
48,411	46,988	0	1,423	38.98

 Table 3.5.4: Estimated Water Use for Individual Well Users in the City of Danville.

3.5.5 City of Martinsville

The City of Martinsville serves an area in Henry County outside the city limits. The total population for the City of Martinsville in 2000 was approximately 15,416 people. The City of Martinsville public community water system serves approximately 16,000 people. The additional 584 people served by the City of Martinsville are located in Henry County and were included in the 'Population Served by Public CWS' for Henry County. Estimated water used by self-supplied, residential users on individual wells using less than 300,000 gallons per month of groundwater in the City of Martinsville is presented in Table 3.5.5.

Table 3.5.5: Estimated Water Use for Individual Well Users in the City of Martinsville.

2000 Census Population	Population Served by Public CWS	Estimated Population Served by Private CWS	Estimated Population Served by Individual Wells	Estimated Annual Average Water Use (MG)
15,416	16,000	0	0	0.00

3.5.6 Town of Chatham

The Town of Chatham serves an area in Pittsylvania County outside the town limits. The total population for the Town of Chatham in 2000 was approximately 1,338 people. The Town of Chatham public community water system serves approximately 2,500 people. The additional 1,162 people served by the Town of Chatham are located in Pittsylvania County and were included in the 'Population Served by Public CWS' for Pittsylvania County. Estimated water used by self-supplied, residential users on individual wells using less than 300,000 gallons per month of groundwater in the Town of Chatham is presented in Table 3.5.6.

2000 Census Population	Population Served by Public CWS	Estimated Population Served by Private CWS	Estimated Population Served by Individual Wells	Estimated Annual Average Water Use (MG)
1,338	2,500	0	0	0.00

Table 3.5.6: Estimated Water Use for Individual Well Users in the Town of Chatham.

3.5.7 Town of Gretna

The Town of Gretna serves an area in Pittsylvania County outside the town limits. The total population for the Town of Gretna in 2000 was approximately 1,257 people. The Town of Gretna public community water system serves approximately 2,500 people. The additional 1,243 people served by the Town of Gretna are located in Pittsylvania County and were included in the 'Population Served by Public CWS' for Pittsylvania County. Estimated water used by self-supplied, residential users on individual wells using less than 300,000 gallons per month of groundwater in the Town of Grenta is presented in Table 3.5.7.

 Table 3.5.7:
 Estimated Water Use for Individual Well Users in the Town of Gretna.

2000 Census Population	Population Served by Public CWS	Estimated Population Served by Private CWS	Estimated Population Served by Individual Wells	Estimated Annual Average Water Use (MG)
1,257	2,500	0	0	0.00

3.5.8 Town of Hurt

The Town of Hurt serves an area in Pittsylvania County outside the town limits. The total population for the Town of Hurt in 2000 was approximately 1,276 people. The Town of Hurt public community water system serves approximately 1,300 people. The additional 24 people served by the Town of Hurt are located in Pittsylvania County and were included in the 'Population Served by Public CWS' for Pittsylvania County. Estimated water used by self-supplied, residential users on individual wells using less than 300,000 gallons per month of groundwater in the Town of Hurt is presented in Table 3.5.8.

2000 Census Population	Population Served by Public CWS	Estimated Population Served by Private CWS	Estimated Population Served by Individual Wells	Estimated Annual Average Water Use (MG)
1,276	1,300	0	0	0.00

 Table 3.5.8: Estimated Water Use for Individual Well Users in the Town of Hurt.

3.5.9 Town of Ridgeway

Estimated water used by self-supplied, residential users on individual wells using less than 300,000 gallons per month of groundwater in the Town of Hurt is presented in Table 3.5.9.

2000 Census Population	Population Served by Public CWS	Estimated Population Served by Private CWS	Estimated Population Served by Individual Wells	Estimated Annual Average Water Use (MG)
775	775	0	0	0.00

 Table 3.5.9: Estimated Water Use for Individual Well Users in the Town of Ridgeway.

3.5.10 Town of Stuart

Estimated water used by self-supplied, residential users on individual wells using less than 300,000 gallons per month of groundwater in the Town of Stuart is presented in Table 3.5.10.

 Table 3.5.10: Estimated Water Use for Individual Well Users in the Town of Stuart.

2000 Census Population	Population Served by Public CWS	Estimated Population Served by Private CWS	Estimated Population Served by Individual Wells	Estimated Annual Average Water Use (MG)
961	921	0	40	1.10