

# Percent on Sewer

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*Approximately what percentage of houses in the municipality does public sewer service? (0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)*

## **Issue Overview**

In homes connected to a sewer system, water is flushed through the building's pipes until it reaches local sewers, which are owned and operated by city and town sewer departments. Thousands of miles of local sewer conduits transport wastewater to interceptor sewers that transport the sewage to treatment plants. According to the Massachusetts Water Resource Authority's (MWRA) website, nearly half the state's population, over 2 million people in 43 communities, send sewage to MWRA's treatment plants on the shores of Boston Harbor.

Homes that are not connected to public sewer must have another system for sewage disposal – most frequently privately owned and maintained on-site subsurface sewage disposal systems (septic systems). Typically, it is more feasible to build at higher densities on sewer than on properties to be served by private septic systems.

## **Research Coding**

Most answers are estimates given by staff at the Board of Health or Department of Public Works (often the sewer commission housed at the DPW). Answers were most accurate close to zero or close to 100 (often chose "99%" if just a few houses on septic), so the answers were coded as ranges rather than exact numbers.

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## **Acton**

*Approximately what percentage of houses in the municipality does public sewer service? (0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)*

**1** According to Brent Reagor, Sanitarian for the Department of Health, 10-12% of the town of Acton is serviced by public sewer.

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## **Amesbury**

*Approximately what percentage of houses in the municipality does public sewer service? (0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)*

**4** According to the water billing coordinator, Helen Theriault (978.388.8119), of the 5,481 accounts in the water department, 4,717 are serviced by public sewer. This is approximately 86% of the town. (10/29/04)

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## **Ashland**

*Approximately what percentage of houses in the municipality does public sewer service? (0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)*

**3** According to David Unger, Superintendent of Ashland's Water and Sewer Department, 60% of the town of Ashland is serviced by public sewer.

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## **Auburn**

*Approximately what percentage of houses in the municipality does public sewer service? (0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)*

4 Eighty five percents of the town is serviced by public sewer. (10/27/04)

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**Avon** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 According to John Tachel, Superintendent of Avon's Water Department, 0% of the town of Avon is serviced by public sewer. 100% of the town of Avon is serviced by septic systems.

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**Ayer** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

4 According to DPW staff person, at least 80% of the town is service by public sewer. (10/26/04)

**Bellingham** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

1 Twenty percent of the municipality is serviced by public sewer. (12/1/04)

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**Berkley** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 Berkley does not have a sewer system. (11/01/04)

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**Berlin** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 According to the town clerk (978.838.2931), no residences in the town are serviced by public sewer. (10/26/04)

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**Beverly** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

4 According to Jerry Marsala, Beverley City Engineer, 90% of the city of Beverly is serviced by public sewer.  
On survey received from Beverly on 3/28/05, the answer is marked ~95%.

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**Billerica**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**3**

According to John Livsey, Billerica Town Engineer, 65% (24,700/38,000) of the town of Billerica is serviced by public sewer.

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**Bolton**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**0**

Called the DPW (978-779-6402) and was told the town of Bolton does not have a sewer system. (11/29/04)

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**Boxborough**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**0**

On 11/18/04 Boxborough's DPW confirmed that the town does not have a sewer system.

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**Boxford**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**0**

According to Patricia Shields, Boxford Town Clerk, 0% of the town of Boxford is serviced by public sewer. Boxford is instead serviced by private, individual septic systems. (8/6/04)

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**Boylston**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**0****Bridgewater**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**2**

According to Jonas Kazlauskas, Superintendent of Bridgewater's Sewer Department, 30% of the town of Bridgewater is serviced by public sewer. (7/23/04)

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**Canton**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**3**

According to Canton staff engineer, Phil Levreault, 75% of Canton is serviced by public sewer. (6/9/05)

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**Carlisle**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0

According to Gary Davis, Superintendent of Carlisle's Department of Public Works, 0% of the town of Carlisle is serviced by public sewer. Carlisle is serviced completely by individual septic systems. (7/15/04)

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**Carver**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0

(10/27/04)

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**Chelmsford**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

3

According to Michael Vosnakis, Operations Supervisor of Chelmsford's Water Division, 70% of the town of Chelmsford is serviced by public sewer.

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**Cohasset**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

2

According to Brenda Douglas, Office Manager, 30% of the town of Cohasset is serviced by public sewer. (8/12/04)

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**Concord**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

2

According to Elaina Proakis, Concord Water and Sewer Operations Engineer, 30% of the city of Concord is serviced by public sewer.

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**Douglas**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

1

According to the superintendent, Dennis Croteau, approximately 10 percent of the town is serviced by public sewer. (10/27/04)

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**Dover**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0

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**Dracut**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

3

According to John R. Turpin, Superintendent of Dracut's Sewer Department, 65-70% of the town of Dracut is serviced by public sewer. (7/23/04)

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**Dunstable**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0

(11/01/04)

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**Duxbury**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

1

Less than 2%. (12/2/04)

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**Easton**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0

According to John Marsh, Superintendent of Easton's Water Division, 0% of the town of Easton is serviced by public sewer. The town of Easton is instead serviced completely by private, individual septic systems. (7/20/04)

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**Essex**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

According to Damon Boutchie, Superintendent of Essex's Water Department, the town of Essex is in the beginning stages of installing a sewer system, thus a percentage of those serviced by sewer has not yet been established. (7/22/04)

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**Foxborough**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

1

According to Leo Potter, Superintendent of Foxborough's Water Department, 15-20% of the town of Foxborough is serviced by the town of Mansfield's public sewer system. (7/22/04)

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**Georgetown**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**0**

According to Karen Edwards, Clerk of Georgetown's Water Department, 0% of the town of Georgetown is serviced by public sewer. (8/3/04)

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**Gloucester**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**3**

From: David Knowlton [mailto:dknowlton@ci.gloucester.ma.us]  
 Sent: Tuesday, December 07, 2004 12:05 PM  
 To: Adriana Nunez  
 Subject: Re: Quick Question

[...] my responses are below [...]

----- Original Message -----

From: Adriana Nunez  
 To: David Knowlton  
 Sent: Tuesday, December 07, 2004 10:12 AM  
 Subject: Quick Question

1) What percentage of Gloucester is serviced by public sewer?

approximately 75%

2) How much does it cost to tie into a sewer line?

the cost varies from project to project, betterments are issued to property owners in the project area that cover 75% of the project costs, 25% is covered by the city through the tax rate. homeowners are responsible for the connection from their house to the stub at the property line, estimated at an average cost of \$3,500. the connection application fee is \$100.

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**Grafton**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**3**

According to the Grafton Sewer Department, 50% of Grafton is serviced by public sewer. (11/18/04)

According to survey received from Grafton (Lois Luniewicz, REHS/RS, CHO), 60% of the municipality is serviced by public sewer. (5/4/05)

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**Groton**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**1**

Groton sewer services about 450 customers. (12/1/04)

**Groveland**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

3 According to the Groveland Sewer Department (12/2/04), 70% of Groveland is serviced by public sewer.

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**Halifax** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 BOH said (12/2/04) that Halifax does not have a sewer system.

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**Hanover** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 According to the clerk of Hanover's Department of Public Works, 0% of the town of Hanover is serviced by public sewer. (7/15/04)

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**Hanson** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 According to Carol, Office Manager of Hanson's Water Department, 0% of the town of Hanson is serviced by public sewer. (7/15/04)

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**Harvard** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 Harvard does not have a sewer system. (11/23/04)

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**Haverhill** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

4 According to Paul Jessel, 78% of Haverhill is serviced by public sewer. (11/23/04)

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**Hingham** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

2 According to Jim Dow, Supervisor of Hingham's Sewer Department, 30% of the town of Hingham is serviced by public sewer. (7/8/04)

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**Holliston** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 According to Gary Haines, Superintendent of Holliston's Water Department, 0% of the town of Holliston is serviced by public sewer. (7/22/04)

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**Hopedale** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

4 85-95% of Hopedale is on sewer. (12/2/04)

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**Hopkinton** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

2 According to Louie Mongiat, Hopkinton Equipment Operator, 30% of the town of Hopkinton is serviced by public sewer. (8/6/04)

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**Ipswich** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

2 According to Vicky Hellman, Ipswich Town Engineer, 50% of the town of Ipswich is serviced by public sewer. (8/3/04)

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**Kingston** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

1 Only 1100 residents are currently on sewer but an additional 500 are scheduled to be tied in next year. (12/2/04)

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**Lakeville** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 No sewer in Lakeville. (10/27/04)

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**Lancaster** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

2 There is one specific sewer district in the town of Lancaster. According to the sewer superintendent, Jonathan Gulliver, approximately 1/3 of the town's population is serviced by public sewer. (10/27/04)

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**Leicester**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

2 According to Mr. Lion, approximately one third of the town is serviced by public sewer. (10/26/04)

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**Leominster**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

4 According to the staff at the department of public works, approximately 80 percent of the town population is serviced by public sewer. (11/04/04)

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**Lexington**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

4 According to Dennis Meehan, Superintendent of Lexington's Water and Sewer Division of the DPW, 90% of the town of Lexington is serviced by public sewer. (7/7/04)

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**Lincoln**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 According to Kevin Loughlin, 0% of the town of Lincoln is serviced by public sewer. (6/30/04)

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**Littleton**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 According to the Littleton Electric Light and Water Department website, [http://www.llewd.com/lwd/pdf/WaterPoliciesandProceduresManual.pdf], 0% of the town of Littleton is serviced by public sewer.

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**Lunenburg**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

1 The staff at the Selectmen's office said that approximately 1 percent of the town is serviced by public sewer. (11/01/04)

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**Manchester-by-**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

3 According to Bob Moroney, Director of Manchester's Department of Public Works, 60% of the town of Manchester is serviced by public sewer. (7/22/04)

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**Mansfield**      *Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)*

2      According to John Sullivan, Mansfield Town Engineer, 43% of the town of Mansfield is serviced by public sewer. (7/23/04)

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**Marshfield**      *Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)*

2      According to Michelle Cavilla, Administrative Clerk of Marshfield's Water Department, 41% of the town of Marshfield is serviced by public sewer. (8/3/04)

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**Medfield**      *Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)*

2      The Medfield Department of Public Works did not know this figure and told the researcher to contact the Medfield Health Department. The researcher contacted Medfield's Health Department on 8/9/04. The Health Department did not have the answer and told the researcher that they would call an environmental official of Medfield and call back with the answer.

8/24/04- Spoke with administrative assistant at the Medfield Water and Sewer Board who stated that this percentage is not available, but she estimated that less than half of the town is on sewer. It should also be noted that it appears from Medfield's website that they have several sewer hookup projects either in the works or recently completed

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**Medway**      *Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)*

3      According to Sandy Giardino, Administrative Secretary of Medway's Water and Sewer Department, 56% the town of Medway is serviced by public sewer. (8/3/04)

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**Merrimac**      *Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)*

2      According to the sewer department, about 1600 units in town are serviced by public sewer (just the town center). She said that is probably about 1/3 of the population. (10/28/04)

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**Middleborough**      *Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)*

2      According Mr. Ciaglo, one third of Middleborough is serviced by public sewer. (10/20/04)

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**Middleton**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**1** According to Mandy Davis, Middleton Water Department Clerk, 0% of the town of Middleton is serviced by public sewer. However, Middleton is in the beginning stages of installing a town-wide sewer system, which is to be completed in three years. (8/5/04)

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According to survey received from Middleton on 3/28/05: "1-25%"

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**Millbury**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**3** According to Brad Lange, approximately 65% of the town is serviced by public sewer. (10/29/04)

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**Millis**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**2** According to Brutis Cantoreggi, Assistant Director to the Millis Department of Public Works, 45% of the town of Millis is serviced by public sewer. (7/8/04)

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**Natick**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**4** According to Jack Perodeau, Supervisor of Natick's Water and Sewer Division, 80% of the town of Natick is serviced by public sewer. (7/14/04)

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**Newbury**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**1** According to Barbara Berkenbush, Office Manager of Newbury's Water Department, 0% of the town of Newbury is serviced by public sewer. (8/3/04)

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Survey received 5/22/05 from Newbury, completed by Deborah Rogers, marks the answer as 1-25%.

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**Norfolk**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**0** According to Paul Anderson, Water Superintendent of Norfolk's Water Department, 0% of the town of Norfolk is serviced by public sewer. (7/15/04)

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**North Andover** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

3 According to Tim Willet, Superintendent of North Andover's Water and Sewer Department, 75% of the town of North Andover is serviced by public sewer. (7/22/04)

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**North Attleboro** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

3 From: Gene Allen [mailto:gallen@north-attleboro.ma.us]  
Sent: Monday, December 13, 2004 2:35 PM  
To: adriana@pioneerinstitute.org  
Subject: Re: quick question

Hello Ms. Nunez,

[...]

We currently have 8,409 water customers  
We currently have 5,408 sewer customers ( 64% )

Single unit connection costs is \$990 to an existing line.

Depending on the size of a sewer main extension the costs can run between  
\$10,000 and \$20,000.

The cost for I&I removal is built into the connection fees.

Please feel free to call me at 508-695-9621 if you have any additional  
questions

Sincerely

Gene Allen  
Assistant Director  
Department of Public Works

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**North Reading** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 According to Mark Clark, Superintendent of North Reading's Water Department, the town of North Reading is completely serviced by septic and therefore 0% of the town is serviced by public sewer. (7/8/04)

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**Northbridge** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

3 According to Jim Madigan, sewer superintendent, approximately 10,000 of the 15,000 residents are serviced by public sewer. (10/27/04)

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**Norton**      Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**1**      The Sewer and Water Department (11/18/04) said that approximately 1000 customers (in a town of 19,000) are serviced by the sewer system.

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**Norwell**      Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**0**      According to Theresa Graham, Water Department Clerk and Meter Reader, and the Norwell Board of Health, 0% of the town of Norwell is serviced by public sewer. (7/15/04)

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**Pembroke**      Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**0**      According to the DPW, Pembroke does not have a sewer system. (11/18/04)

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**Pepperell**      Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**1**      According to Mark Richardson, sewer superintendent, approximately 25-30 percent of the town population is serviced by public sewer. (10/27/04)

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**Plainville**      Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**2**      According to James Marshall, approximately 50% of Plainville's land area and population are serviced by sewer. (12/15/04)

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**Plymouth**      Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**2**      According to the Department of Public Works, approximately 16,000 of the 45,000 year round population (35%) is serviced by public sewer. (10/20/04)

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**Plympton**      Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 No sewer in Plympton. (11/02/04)

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**Raynham** Approximately what percentage of houses in the municipality does public sewer service? (0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

4 75% of single family residences and commercial buildings have access to Raynham's sewer system. (11/29/04)  
Survey received from Raynham in June 2005 marked the answer as the range 76-98%.

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**Rehoboth** Approximately what percentage of houses in the municipality does public sewer service? (0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 There is no sewer system in Rehoboth. (11/01/04)

**Rockport** Approximately what percentage of houses in the municipality does public sewer service? (0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

4 According to George Robertson, a senior field coordinator in engineering, 80 percent of the town's population is service by public sewer. (11/01/04)

**Rowley** Approximately what percentage of houses in the municipality does public sewer service? (0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 According to John Russ of Rowley's Water Department, 0% of the town of Rowley is serviced by public sewer. (8/3/04)

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**Salisbury** Approximately what percentage of houses in the municipality does public sewer service? (0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

2 Approximately 50% of Salisbury is serviced by public sewer. (10/29/04)

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**Scituate** Approximately what percentage of houses in the municipality does public sewer service? (0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

2 According to Bob Rowland, Supervisor of Scituate's Sewer Division, 30% of the town of Scituate is serviced by public sewer. (8/10/04)

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**Sharon**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 According to Eric Hooper, Superintendent of Sharon's Public Works Department, 0% the town of Sharon is serviced by public sewer. (7/15/05)

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**Sherborn**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 According to Sherborn's Official Town website, [http://www.sherbornma.org/], the town of Sherborn does not have a sewer system.

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**Shirley**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

3 According to Lonna Coke, Sewer Commission Secretary, approximately 2/3 of the households are on public sewer. (11/08/04)

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**Shrewsbury**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

4 According to Mr. Tozeski, 85% of the town is serviced by public sewer. (10/20/04)

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**Southborough**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 According to Jean Johnson, Administrative Secretary of Southborough's Department of Public Works, 0% of the town of Southborough is serviced by public sewer. (7/22/02)

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**Sterling**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 No sewer system in Sterling. (10/29/04)

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**Stoughton**

Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

3 According to Barbara Greenwood, Stoughton Engineer, 64% of the town of Stoughton is serviced by public sewer. (7/13/04)

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**Stow** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 According to Linda Hathaway, Stow Town Clerk, 0% of the town of Stow is serviced by public sewer. (8/5/04)

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**Sudbury** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 According to Renee, Administrative Assistant for Sudbury's Department of Public Works, 0% of the town of Sudbury is serviced by public sewer.

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**Sutton** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

1 According to the person who answered the phone at the DPW, a very small percentage of the town is serviced by public sewer. The researcher tried to prompt the secretary with an estimates of 10%, she said she still did not know but did not offer a number from which the researcher could obtain the information. The researcher concluded that the percentage is likely to be smaller than 10%. (10/29/04)

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**Swansea** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 No sewer system in Swansea. (10/26/04)

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**Tewksbury** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

2 According to Lisa Demeo, Tewksbury town Engineer, 40% of the town of Tewksbury is serviced by public sewer. (8/5/04)

According to Tewksbury's town website, [<http://www.tewksbury.info/dcd/Engineering/Sewer%20Project/index.html>], Tewksbury is in the process of installing a sewer system for the entire town:

"At the Special Town Meeting on October 1, 2002, the voters approved long-term funding of a sewer expansion project that will eventually bring sewer service to the entire town. The project is ambitious, and is expected to be complete by the end of 2010. The cost will be covered through a combination of a one-time \$3,000.00 availability charge, and user rates that will be placed in a dedicated fund to cover the expansion costs. Residents should note that funding must still be approved yearly at the Annual Town Meeting, and must be vigilant to ensure that this occurs by attending Town Meeting."

**Topsfield** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

0 According to Bill Wooden, Superintendent of Topsfield's Water Department, 0% of the town of Topsfield is serviced by public sewer. (7/15/04)



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**Townsend**      Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**0**      No sewer system in Townsend. (10/29/04)

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**Tyngsborough**      Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**1**      Eastern Tyngsborough and the area around Dunstable Road in on sewer. (12/2/04)

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**Upton**      Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**1**      According to the sewer superintendent, Ron SanSouci, about 500 out of approximately 6,000 (8%) are serviced by public sewer. (10/28/04)

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**Uxbridge**      Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**2**      According to the sewer superintendent, approximately 40% of the town is serviced by public sewer. (10/27/04)

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**Walpole**      Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**3**      According to Steven Davis, Chairman of Walpole's Water and Sewer Commission, 60-70% of the town of Walpole is serviced by public sewer. (8/6/04)

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**Wayland**      Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**1**      According to Bill Prendergas, Wayland's Sewer Commission Volunteer, 1% of the town of Wayland is serviced by public sewer. The remaining 99% is serviced by septic tanks. Bill Prendergas notes that the reason for the low percentage of residences serviced by public sewer is largely due to the large cost that the town of Wayland charges for a sewer "privilege fee" (hook-up fee). The town of Wayland charges a \$11,549 sewer privilege fee per dwelling. (7/13/04)

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**Wellesley**      Approximately what percentage of houses in the municipality does public sewer service?

(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**4** According to Joe Duggan, Director of Wellesley's Water and Sewer Division, 97% of Wellesley is serviced by public sewer. (6/30/04)

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**West Bridgewater** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**0** According to Richard Krugger, Superintendent of West Bridgewater's Water Department, 0% of the town of West Bridgewater is serviced by public sewer. (8/6/04)

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**West Newbury** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**0** No sewer system in West Newbury (11/02/04)

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**Westford** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**0** According to Warren Sweetsy, Superintendent of Westford's Water Department, 0% of the town of Westford is serviced by public sewer. (7/16/04)

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**Weston** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**0** According to Russell Ferrelli, Weston's Water Superintendent, Weston relies 100% upon septic. (6/30/04)

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**Wilmington** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**1** According to Ron Antico, Assistant Superintendent of Wilmington's Water and Sewer Department, 17% of Wilmington is serviced by public sewer. (7/8/04)

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**Wrentham** Approximately what percentage of houses in the municipality does public sewer service?  
(0: No houses on sewer; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-98%; 5: 99-100%)

**0** According to Robert Reardon, Director of Wrentham's Public Works Department, 0% of the town of Wrentham is serviced by public sewer. (8/9/04)

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