

Design Flow

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

Issue Overview The state requires that septic systems be designed to handle 110 gallons per bedroom per day – or 165 gallons if the house has a garbage disposal. Many of the local regulations state that systems should be designed for the increased flow (165 gallons) whether or not garbage disposals are installed. Many regulations mandate that systems be designed for 150 gallons per day; a couple of regulations mandate other flow capacities.

Research Coding Researcher looked for the relevant language in the septic regulations. A few of the regulations list the flow in terms of gallons per person per day, based on the occupancy of each bedroom by two people. Some specify the increase over Title 5 in terms of percent, usually a 50% increase (165 gallons).

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

Issue Overview Title 5 requires that septic systems for single family houses be designed to accommodate a flow of 110 gallons per bedroom per day. Unless a house is deed restricted to two bedrooms, the system should be designed to serve at least three bedrooms, which means that the minimum flow for single family design is 330 gallons. There are a few mechanisms that municipalities can use to require stricter minimum flow than the state does: (1) changing bedroom definitions, (2) increasing design flow per bedroom per day, (3) listing an increased minimum design flow.

Research Coding A few of the regulations specify the minimum flow for a single family dwelling. If the regulations do not state a minimum flow for the house, then the researcher multiplied the minimum number of bedrooms that the regulations specify be counted for system design by the flow requirement in gallons per bedroom per day. For example, if the regulation states that systems serving single family dwellings shall be designed for a minimum of four bedrooms, and there is no change in the design flow, then the answer is 440 gallons per day. If the regulations require a design flow of 150 gallons/bedroom/day and the regulations make no change in the minimum count of bedrooms, then the minimum flow is 450 gallons per day. If no changes are specified, the answer is 330 gallons per day (per Title 5).

Does the municipality count bedrooms in a different way from Title 5's requirements?

Issue Overview By changing the definition of bedrooms from that listed in Title 5, some municipalities increase the system design flow necessary for a single family house, as flow is calculated in terms of the number of bedrooms.

Title 5 requires that septic systems at single-family homes be designed for at least 2 bedrooms if the house is deed restricted and 3 bedrooms otherwise. Title 5 definition of bedroom: "A room providing privacy, intended primarily for sleeping and consisting of the following: floor space of no less than 70 square feet; for new construction, a ceiling height of no less than 7'3"; for existing houses and for mobile homes, a ceiling height of no less than 7'0"; an electrical service and ventilation; and at least one window. Living rooms, dining rooms, kitchens, halls, bathrooms, unfinished cellars and unheated storage areas over garages are not considered bedrooms. Single family dwellings shall be presumed to have at least three bedrooms. Where the total number of rooms for single family dwellings exceeds eight, not including bathrooms, hallways, unfinished cellars and unheated storage areas, the number of bedrooms presumed shall be calculated by dividing the total number of rooms by two then rounding down to the next lowest whole number."

Some municipalities use a different definition for bedrooms, or require that systems be designed for at least four bedrooms, unless deed restricted.

Research Coding The researcher coded the answer as Yes if the regulations include a definition of bedrooms that differs from Title 5, or requires that systems be designed for at least 4 bedrooms. Examples of changes include: (1) all living space except for one living room, kitchen and bathrooms, with dens, family rooms, libraries and game rooms counts as bedrooms; (2) rooms in excess of 300 square feet (or another size) count as two rooms; (3) calculation of bedrooms is based on division of number of rooms by two and rounding *up* (Title 5 rounds down); (4) calculation of bedrooms is based also on total contiguous buildable area on the lot; and (5) all rooms above the first floor are counted as bedrooms in houses with fewer than eight rooms.

Acton

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 Researcher found no reference in the Acton Regulations to an adjustment in design flow in gallons per bedroom per day, and thus determined that the design flow requirement is the same as the state.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 Researcher found no reference in the Acton Regulations to an increased minimum flow requirement for single family septic design, and thus determined that this requirement is the same as the state.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No Researcher found no reference to the method of counting bedrooms in the Acton Regulations, and thus determined that Acton follows the Title 5 definition of bedrooms.

Amesbury

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

150 From amendment 6, "[T]he system shall be designed for a flow of 75 gallons per person per day based on the occupancy of each bedroom by two people. The flow must be 150 gallons per bedroom per day." (Amesbury Title V Septic Regulations Amendments, Amended 1999,2003)

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

450 The town increases the flow requirement of gallons per bedroom per day to 150. Therefore, a 3 bedroom house would have a minimum design requirement of 450 gallons/day. From amendment 6, "[T]he system shall be designed for a flow of 75 gallons per person per day based on the occupancy of each bedroom by two people. The flow must be 150 gallons per bedroom per day." (Amesbury Title V Septic Regulations Amendments, Amended 1999,2003)

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Amesbury regulations to definitions of bedrooms.

Ashland

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 Researcher found no reference to design flow per bedroom per day in the Ashland Regulations, and thus determined that this regulation is the same as the state.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 Researcher found no reference to minimum flow for single family septic design in the Ashland Regulations, and thus determined that this requirement is the same as the state.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No Researcher found no modification in the Ashland Regulations to the method in which Title 5 counts bedrooms, and thus determined that bedrooms in Chelmsford are counted in the same manner as the state.

Auburn

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Auburn regulations to a requirement for design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Auburn regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

Yes From the Section 5 Title 5 Amendments, amendment 5.2, "The flow rate determination for a dwelling shall be made on all living space to be considered bedrooms with the exception of one (1) living room, one (1) dining room, kitchen and baths, all other living space, i.e. but not exclusively, dens, family rooms, libraries, game rooms, etc. shall for the purposes of design be classified as bedrooms or potential bedrooms."

(Auburn Board of Health Regulations, Section 5 Title 5 Amendments)

Avon

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330

Does the municipality count bedrooms in a different way from Title 5's requirements?

No

Ayer

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Ayer regulations to a requirement for design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Ayer regulations to design flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Ayer regulations to a definition for bedrooms.

Bellingham

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 Survey received from Bellingham Health Agent Mike Graf on 6/1/05 marks that Bellingham has local septic regulations. He writes that they were adopted before 1995 and the Title 5 changes in 1995 superceded most of the local regulations. The only answer he marked as "different from Title 5" is the setback from wells.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

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Does the municipality count bedrooms in a different way from Title 5's requirements?

No Survey received from Bellingham Health Agent Mike Graf on 6/1/05 marks that Bellingham has local septic regulations. He writes that they were adopted before 1995 and the Title 5 changes in 1995 superceded most of the local regulations. The only answer he marked as "different from Title 5" is the setback from wells.

Berkley

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Berkley regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Berkley regulations to minimum flow for single family septic design.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Berkley regulations to definitions for bedrooms.

Berlin

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 From Section III, I. Volume of Sanitary Sewage, "[s]ingle and multiple family residences are to be determined at the rate of 110 gallons per day per bedroom."

(Berlin Board of Health Regulations, Sub-surface Disposal Regulations, Adopted 1996)

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Berlin regulations to minimum flow requirements beyond Title 5's.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Berlin regulations to definitions of bedrooms.

Beverly

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 The researcher found no reference in the Beverly Regulations to minimum design flow in gallons per bedroom per day, and was also informed by Joseph Reale that Beverly follows Title 5 in regard to all septic matters except minimum leaching field size.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 The researcher found no reference in the Beverly Regulations to required minimum daily flow for single-family septic design, and was also informed by Joseph Reale that Beverly follows Title 5 in regard to all septic matters except minimum leaching field size.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No The researcher found no reference in the Beverly Regulations to a modification of the Title 5 definition of 'bedroom,' and was also informed by Joseph Reale that Beverly follows Title 5 in regard to all septic matters except minimum leaching field size.

Billerica

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 According to the Billerica Board of Health Rules & Regulations, section 5.3.007 (adopted November 20, 2000), "All subsurface sewage disposal systems for new construction of single family dwellings shall be designed to accept a minimum flow of four hundred forty (440) gallons of effluent per day. All subsurface sewage disposal systems must be designed and contained on the lot or property it is to service. If a four hundred forty (440) gallon per day design cannot be achieved, then a system may be designed for a design flow of three hundred thirty (330) gallons per day only if a deed restriction limiting the use of the dwelling to

three (3) bedrooms is provided. The deed restriction shall state: "This dwelling is restricted to use as a three (3) bedroom home. Any change in use shall require written approval from the Board of Health." No new system shall be designed for less than three hundred thirty (330) gallons per day."

While Billerica does require at least 110 gallons per bedroom per day, the Billerica Board of Health Rules & Regulations require a design flow of 440 gallons total for a single family home, in the absence of a deed restriction of 3 bedrooms only. In addition, while state requirements allow a single family design flow of as low as 220 gallons per bedroom per day, the minimum design flow allowable in Billerica is 330 gallons per bedroom per day, regardless of deed.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

440 According to the Billerica Board of Health Rules & Regulations, section 5.3.007 (adopted November 20, 2000), "All subsurface sewage disposal systems for new construction of single family dwellings shall be designed to accept a minimum flow of four hundred forty (440) gallons of effluent per day. All subsurface sewage disposal systems must be designed and contained on the lot or property it is to service. If a four hundred forty (440) gallon per day design cannot be achieved, then a system may be designed for a design flow of three hundred thirty (330) gallons per day only if a deed restriction limiting the use of the dwelling to three (3) bedrooms is provided. The deed restriction shall state: "This dwelling is restricted to use as a three (3) bedroom home. Any change in use shall require written approval from the Board of Health." No new system shall be designed for less than three hundred thirty (330) gallons per day."

Does the municipality count bedrooms in a different way from Title 5's requirements?

No Researcher did not find any reference to bedroom counting or status in the Billerica Board of Health Rules & Regulations, thus researcher concludes that Billerica counts bedrooms the same as the state.

Bolton

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Bolton regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Bolton regulations to minimum flow for single family septic design.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No The Town of Bolton modeled their formula directly after Title 5 (confirmed on 11/8/05 phone conversation with the Board of Health staff.)

"(a) The total number of rooms for a single family dwelling shall be the total number of rooms, not including any bathrooms, hallways, unfinished cellars, and unheated storage areas. (b) For new construction, the number of bedrooms shall be defined as a maximum of: three (3) or the total number of rooms, as defined in 19(a), divided by two (2) rounded down. (c) For new construction, the subsurface disposal system must be sized to support the number of bedrooms calculated in 19(b). No deed restrictions for the number of bedrooms will be allowed, without prior approval by the Board."

From the Bolton Board of Health, Requirements for the Subsurface Disposal of Sanitary Sewage, Regulation 19 (Adopted 1977, Amended 2001).

Boxborough

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Boxborough regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in Boxborough regulations to minimum flow for single family septic design.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Boxborough regulations to definitions for bedrooms.

Boxford

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

165 Researcher spoke with Kendall, the Health Agent for Boxford. She stated that the garbage grinder requirement increases the minimum design flow 50%, to 165 gallons per bedroom per day. She stated that this also affects the size of the leaching field, as the leaching field must be built to handle the increased flow, but it does not increase the minimum size requirement of the septic tank itself. The provision in the Boxford Regulations that requires the design to handle garbage grinders is Boxford Code, Chapter 201, Subsurface Sanitary Systems, Article V, section 201-10 Grinders (adopted 2/94).

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

495 Researcher spoke with Kendall, the Health Agent for Boxford. She stated that the garbage grinder requirement increases the minimum design flow 50%, to 165 gallons per bedroom per day. She stated that this also effects the size of the leaching field, as the leaching field must be built to handle the increased flow, but it does not increase the minimum size requirement of the septic tank itself. The provision in the Boxford Regulations that requires the design to handle garbage grinders is Boxford Code, Chapter 201, Subsurface Sanitary Systems, Article V, section 201-10 Grinders (adopted 2/94).

In addition, researcher found no reference in the Boxford Regulations to a change in the method for determining number of bedrooms, and thus determined that the minimum flow requirement for single-family septic design would be 495 for a three-bedroom home.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Boxford Regulations to a modification of the definition of bedrooms.

Boylston

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Boylston regulations to a requirement for design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Boylston regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Boylston regulations to a definition of bedrooms.

Bridgewater

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Bridgewater regulations to a requirement for design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Bridgewater regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Bridgewater regulations to a way of counting bedrooms that differs from Title 5.

Canton

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 Researcher checked with Director of Public Health to determine whether the garbage grinder requirement would mean that the design flow needs to be 165 gallons per bedroom per day.

John Ciccotelli, Director of Public Health, on 8/24/04, explained that Canton's design flow is 110 gallons per bedroom per day. He said that he encourages people not to install garbage disposals and that nobody has insisted on putting them in.

Canton Board of Health Regulations, Section 2.4 On-site Sewage Disposal Systems (received by fax August 2004)

7. Leaching Area

A. Every new leaching facility shall meet the requirements for the installation of garbage grinders (50% increase in the leaching area) whether or not a garbage grinder is proposed.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 John Ciccotelli, Director of Public Health, on 8/24/04, explained that Canton does not require minimum flow beyond Title 5.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No Canton Board of Health Regulations, Section 2.4 On-site Sewage Disposal Systems (received by fax August 2004)

7.B. Every new leaching facility shall serve a minimum of three bedrooms.

This is the only mention of bedrooms in the two pages of regulations. Title 5 also requires that septic systems be designed for 3-bedrooms, unless the house is deed restricted to fewer bedrooms.

John Ciccotelli, Director of Public Health, on 8/24/04, explained that Canton does not count bedrooms in a different way from Title 5. He said he used to work in the DEP Title 5 office, so he knows what Title 5 requires. He did note that "We interpret bedrooms as anything that looks and smells like bedrooms. We will take the word 'intend' from Title 5 out. Don't have to intend. We are strict about what is a bedroom. This still fits the Title 5 definition. Title 5 says a minimum of three bedrooms. Then if it is more than 6 bedrooms, you go to the highest number and divide by 2. We do that, but if an office looks like a bedroom, we count it. DEP would also call it a bedroom."

Carlisle

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

165 The Carlisle Supplementary Regulations states: "Every new leaching facility constructed in Carlisle shall meet the Title 5 requirement for the installation of garbage grinders whether or not a garbage grinder is proposed. However, since Title 5 limits new construction to a maximum of 440 gallons per day per acre, all new construction on one (1) acre parcels or less which proposes the maximum effluent loading (440 gpd), shall require a garbage grinder deed restriction in lieu of the garbage grinder requirement. Repairs to systems on parcels of this size will require the 50% increase in leaching area where feasible. For all other new construction the effluent loading rate shall not exceed the 440 gpd per acre including the garbage grinder allowance unless the aggregate area meets the criteria as stated in 15.216." Town of Carlisle Supplementary Regulations for Sewage Disposal Systems, Section 15.221, (adopted 12/1/83, effective with amendments 7/1/98).

Thus, researcher concludes that the required design flow in Carlisle is 165 gallons per bedroom per day, unless the lot is one acre or less. Where the lot is one acre or less, there must be a garbage grinder deed restriction IF the plan proposes the maximum effluent loading rate of 440 gallons per bedroom per day as is set out in Title 5, Section 15.216.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

495 The Carlisle Supplementary Regulations states: "Every new leaching facility constructed in Carlisle shall meet the Title 5 requirement for the installation of garbage grinders whether or not a garbage grinder is proposed. However, since Title 5 limits new construction to a maximum of 440 gallons per day per acre, all new construction on one (1) acre parcels or less which proposes the maximum effluent loading (440 gpd), shall require a garbage grinder deed restriction in lieu of the garbage grinder requirement. Repairs to systems on parcels of this size will require the 50% increase in leaching area where feasible. For all other new construction the effluent loading rate shall not exceed the 440 gpd per acre including the garbage grinder allowance unless the aggregate area meets the criteria as stated in 15.216." Town of Carlisle Supplementary Regulations for Sewage Disposal Systems, Section 15.221, (adopted 12/1/83, effective with amendments 7/1/98).

Thus, researcher concludes that, because the Carlisle Supplementary Regulations require a design flow per bedroom per day of 165 regardless of whether a garbage grinder is proposed, the Town of Carlisle would require a minimum flow for single family design of 495, presuming a 3 bedroom design as minimally required by Title 5 without a deed restriction. Town of Carlisle Supplementary Regulations for Sewage Disposal Systems, Section 15.221, (adopted 12/1/83, effective with amendments 7/1/98); The State Environmental Code, Title 5, 310 CMR 15.000 at 15.002.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference to bedroom counting and determination in the Town of Carlisle Supplementary Regulations.

Carver

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Carver regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Carver regulations to minimum flow for single family septic design.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Carver regulations to a way of counting bedrooms that differs from Title 5.

Chelmsford

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 Researcher found only one mention of design flow requirements in the Chelmsford Regulations which is in reference to the leaching area required for a four bedroom home: "Minimum leaching area for a four bedroom home is a 1,000 square foot bed or its equivalent but not less than 150 gallons per bedroom (Exception: If perc rate is two (2) or less than two (2), the smaller minimum is accepted)." Town of Chelmsford General Provisions, Chapter 200, Article VI, Board of Health, Subsurface Sewage and Wastewater Disposal, Groundwater Protection, Section 201-24 (B) (applicable as amended 4/3/95).

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 Researcher found that, in most situations, the Chelmsford Regulations have the same minimum flow requirements for single-family septic design as the state, because they include no references to required minimum flow. However, where a four-bedroom home is planned, the following provision applies:
"Minimum leaching area for a four bedroom home is a 1,000 square foot bed or its equivalent but not less than 150 gallons per bedroom (Exception: If perc rate is two (2) or less than two (2), the smaller minimum is accepted)." Town of Chelmsford General Provisions, Chapter 200, Article VI, Board of Health, Subsurface Sewage and Wastewater Disposal, Groundwater Protection, Section 201-24 (B) (applicable as amended 4/3/95).
Thus, researcher determined that the minimum flow possible for a four-bedroom design would be 600 gallons per day (150 gallons per each of 4 bedrooms), but in all other situations the design flow requirement is the same as the state.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No modification in the Chelmsford Regulations to the definition of bedrooms in Title 5.

Cohasset

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Cohasset Regulations to design flow per bedroom per day required.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference to minimum flow requirement in the Cohasset Regulations.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No modification to the Title 5 definition of bedrooms in the Cohasset Regulations.

Concord

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Concord Regulations to design flow.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Concord Regulations to an increase in the minimum flow requirement for single-family design.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Concord regulations to a modification of Title 5 definition of bedrooms.

Douglas

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Douglas regulations to a requirement for design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Douglas regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Douglas regulations to a way of counting bedrooms that differs from Title 5.

Dover

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Dover Regulations to minimum flow requirement for single-family septic design.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference to a modification of the Title 5 definition of 'bedroom.'

Dracut

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 Representative of the Board of Health said (10/13/04) that they only enforce one regulation that supplements Title 5 - the setback from wetlands.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 Representative of the Board of Health said (10/13/04) that they only enforce one regulation that supplements Title 5 - the setback from wetlands.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No Representative of the Board of Health said (10/13/04) that they only enforce one regulation that supplements Title 5 - the setback from wetlands.

Dunstable

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Dunstable regulations to a requirement for design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Dunstable regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in Dunstable regulations to a way of counting bedrooms that differs from Title 5.

Duxbury

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

- 110** Only reference to flow per bedroom per day applies to major additions to existing approved design flow: "Existing approved design flow shall be used to determine potential number of bedrooms. Systems with a leaching areas (sic) designed for 1000 gallons shall be approved for a maximum of 5 bedrooms with a 1500-gallon septic tank, 4 bedrooms with a 1000-gallon septic tank. A valid Title 5 inspection or Certificate of Compliance will be required." Town of Duxbury, Supplementary Rules and Regulations to the State Environmental Code, Section 1.18 (5) (Effective July 1, 2000)

No other reference is made to design flow.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

- 330** According to Jennifer Dalrymple, the health agent for the Duxbury Board of Health, (7/14/04) the municipality does not require a minimum flow for single-family septic design that is beyond Title 5's requirement.

Does the municipality count bedrooms in a different way from Title 5's requirements?

- Yes** Municipality counts bedrooms in essentially the same way as Title 5, but also adds that: "Any unfinished room, libraries, studies, studios, or other easily converted rooms, which provide privacy, shall be considered bedrooms for the purpose of design flow."

Town of Duxbury, Supplementary Rules and Regulations to the State Environmental Code, Section 1.02 (Effective July 1, 2000).

1.02 DEFINITIONS

Bedroom - Any unfinished room, libraries, studies, studios, or other easily converted rooms, which provide privacy, shall be considered bedrooms for the purpose of design flow. These rooms shall consist of all of the following:

- a. floor space of no less than 70 square feet
- b. for new construction, a ceiling height of no less than 7'3",
- c. for existing houses, a ceiling height of no less than 7',
- d. an electrical service and ventilation; and
- e. at least one window.

Living rooms, dining rooms, kitchens, halls, bathrooms, unfinished cellars and unheated storage areas over garages are not considered bedrooms. Where the total number of rooms exceeds eight, not including bathrooms, hallways, unfinished cellars and unheated storage areas, the number of bedrooms presumed shall be calculated by dividing the total number of rooms by two then rounding down to the next lowest whole number.

Easton

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

- 110** No reference to design flow in gallons per bedroom per day in the Easton Regulations.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

- 330** No reference in the Easton Regulations to required minimum flow for single-family septic design.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Easton Regulations to the method by which bedrooms should be counted.

Essex

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Essex regulations to design flow per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference to minimum flow requirement for single family septic design.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Essex regulations to a modification of the definition of bedrooms.

Foxborough

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No references in the Foxborough Regulations to design flow in gallons per bedroom per day, and thus determined that the design flow required is the same as the state.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Foxborough Regulations to minimum flow for single-family septic design.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No modification to the state's definition of bedrooms in the Foxborough regulations.

Georgetown

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

165 "All new septic systems shall be designed to include garbage disposal systems. Therefore, the sewage (flow design rate) for residential dwellings shall be at least one hundred sixty-five (165) gallons per bedroom per day. This supersedes 310 CMR 15.02 (13) (Title V)." From the Georgetown Bylaws Chapter 462, Sewage Disposal, Section 8 (B) (Adopted 1974, Amended 1999).

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

495 "The septic tank must have a minimum capacity of one thousand five hundred (1500) gallons [superseding 310 CMR 15.06 (1)]. From the Georgetown Bylaws Chapter 462, Sewage Disposal, Section 8 (E) (Adopted 1974, Amended 1999).

"All new septic systems shall be designed to include garbage disposal systems. Therefore, the sewage (flow design rate) for residential dwellings shall be at least one hundred sixty-five (165) gallons per bedroom per day. This supersedes 310 CMR 15.02 (13) (Title V)." From the Georgetown Bylaws Chapter 462, Sewage Disposal, Section 8 (B) (Adopted 1974, Amended 1999).

Does the municipality count bedrooms in a different way from Title 5's requirements?

No "Bedroom—for design purposes shall mean the total number of rooms (excluding hallways and bathrooms), rounded down if an odd number, and divided by two)." From the Georgetown Bylaws Chapter 462, Sewage Disposal.

Title 5 definition of bedroom: "A room providing privacy, intended primarily for sleeping and consisting of the following: floor space of no less than 70 square feet; for new construction, a ceiling height of no less than 7'3"; for existing houses and for mobile homes, a ceiling height of no less than 7'0"; an electrical service and ventilation; and at least one window. Living rooms, dining rooms, kitchens, halls, bathrooms, unfinished cellars and unheated storage areas over garages are not considered bedrooms. Single family dwellings shall be presumed to have at least three bedrooms. Where the total number of rooms for single family dwellings exceeds eight, not including bathrooms, hallways, unfinished cellars and unheated storage areas, the number of bedrooms presumed shall be calculated by dividing the total number of rooms by two then rounding down to the next lowest whole number."

Gloucester

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Gloucester regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Gloucester regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Gloucester regulations to a way of counting bedrooms that differs from Title 5.

Grafton

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Grafton regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Grafton regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No Grafton follows Title 5's definition of a bedroom.

"For lots created after November 1, 2004, soil absorption systems must be designed to accommodate the number of bedrooms in the final house design using Title 5 definition of 'bedroom'; deed restrictions will not be granted. To verify compliance, one (1) copy of the final house design plans must also be submitted to the Board with the septic system design plans. In the event that the final house design has not yet been determined at the time that the septic design plan is submitted, a conditional soil absorption construction permit, clearly designated as such will be issued. Prior to issuance of the final soil absorption system construction permit, the final house plans must be reviewed. If the number of bedrooms in the final house plan exceeds the number of bedrooms conditionally approved on the septic system design, the septic system must be redesigned." From the Town of Grafton's Supplement to Title V, "Design" no. 18 (Revised 2004).

Groton

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Groton regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Groton regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Groton regulations to a way of counting bedrooms that differs from Title 5.

Groveland

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

150 "For single and multiple residences, the system shall be designed to take 150 gallons per bedroom."
From the Rules and Regulations of Sewage Disposal, Section III (8) (Adopted 1997).

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

450 "For single and multiple residences, the system shall be designed to take 150 gallons per bedroom."
From the Rules and Regulations of Sewage Disposal, Section III (8) (Adopted 1997).

Does the municipality count bedrooms in a different way from Title 5's requirements?

No "Number of bedrooms shall be determined by dividing the total number rooms in the existing or proposed house served by the septic system and dividing by two. If total rooms are an odd number it may be rounded down."

From the Rules and Regulations of Sewage Disposal, Section III (8) (Adopted 1997).

Title 5 definition of bedroom: "A room providing privacy, intended primarily for sleeping and consisting of the following: floor space of no less than 70 square feet; for new construction, a ceiling height of no less than 7'3"; for existing houses and for mobile homes, a ceiling height of no less than 7'0"; an electrical service and ventilation; and at least one window. Living rooms, dining rooms, kitchens, halls, bathrooms, unfinished cellars and unheated storage areas over garages are not considered bedrooms. Single family dwellings shall be presumed to have at least three bedrooms. Where the total number of rooms for single family dwellings exceeds eight, not including bathrooms, hallways, unfinished cellars and unheated storage areas, the number of bedrooms presumed shall be calculated by dividing the total number of rooms by two then rounding down to the next lowest whole number."

Halifax

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Halifax regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Halifax regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No reference in the Halifax regulations to a way of counting bedrooms in a way that differs from Title 5.

Hanover

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference to the design flow in gallons per bedroom per day in the Hanover regulations.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference to a minimum flow requirement for single-family septic design in the Hanover regulations.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference to a method for counting bedrooms in the Hanover regulations.

Hanson

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 The regulations only cover what needs to be presented in submitted plans.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 The regulations only cover what needs to be presented in submitted plans.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No The regulations only cover what needs to be presented in submitted plans.

Harvard

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Harvard regulations to a requirement for design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Harvard regulations to minimum flow for single family septic design.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Harvard regulations to a way of counting bedrooms.

Haverhill

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Haverhill regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Haverhill regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Haverhill regulations to a way of counting bedrooms.

Hingham

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 "1. The determination of minimum daily sewage flow to be used for the design of Sewage Disposal Systems shall be in accordance with Title 5 310 CMR 15.203" [Section VI. Board of Health Supplementary Rules and Regulations for the Disposal of Sanitary Sewage]

"8. No Sewage Disposal System (SDS) serving new construction or Expansion of Use shall be designed to discharge more than 110 gallons of design flow per day per 12,500 sq. ft. in Lot area." [Section VI. Board of Health Supplementary Rules and Regulations for the Disposal of Sanitary Sewage]

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 According to Bruce T. Capman, RS, Executive Health Officer bedrooms are counted in the same way as Title 5.

Mr. Capman informed researcher that there is an automatic 3 bedroom design and a developer would need a deed restriction to design for fewer bedrooms than that.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No According to Bruce T. Capman, RS, Executive Health Officer bedrooms are counted in the same way as Title 5.

Holliston

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference to the design flow in gallons per bedroom per day in the Title V amendments.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference to the minimum single-family design flow in the Title V amendments.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference to the definition of a bedroom in the Title V amendments.

Hopedale

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 The Board of Health (11/30/04) indicated that the only local requirement for septic systems related to filters.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 The Board of Health (11/30/04) indicated that the only local requirement for septic systems related to filters.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No The Board of Health (11/30/04) indicated that the only local requirement for septic systems related to filters.

Hopkinton

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Hopkinton regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference to required minimum flow for single family design in the Hopkinton regulations.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Hopkinton Regulations to a modification of the Title 5 definition of 'bedroom.'

Ipswich

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

150 "Septic system design flows for dwellings shall be based on a flow rate of 150 gallons per day per bedroom for a design of three bedrooms or more. Title 5 design flow of 110 gallons per day per bedroom shall apply for a design of less than three bedrooms. Variances will not be granted for new construction."

From Ipswich's Supplements to Title 5, Section 2.2 (Adopted 2002)

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

450 "Septic system design flows for dwellings shall be based on a flow rate of 150 gallons per day per bedroom for a design of three bedrooms or more. Title 5 design flow of 110 gallons per day per bedroom shall apply for a design of less than three bedrooms. Variances will not be granted for new construction."

From Ipswich's Supplements to Title 5, Section 2.2 (Adopted 2002)

Does the municipality count bedrooms in a different way from Title 5's requirements?

No IPSWICH BOARD OF HEALTH SEPTIC SYSTEM REGULATIONS (Adopted 2002)

"2.15 The design flow for a dwelling shall be based on the number of bedrooms in existence at the time the septic system plan is designed. The Health Agent will conduct a walkthrough of the dwelling

or review floor plans of the dwelling, supplied by the property owner, and determine the bedroom count utilizing the definition of bedroom provided in Title 5, 310 CMR 15.000."

Kingston

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Kingston regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Kingston regulations to a minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Kingston regulations to a way of counting bedrooms that differs from Title 5.

Lakeville

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Lakeville regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Lakeville regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Lakeville regulations to a way of counting bedrooms that differs from Title 5.

Lancaster

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Lancaster regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 From Section 6.6 Hydraulic Overloading of the Effluent on the Groundwater,
"a)The maximum amount of effluent that may be discharged is 440 gallons per acre per day."
(Regulations of the Lancaster Board of Health, Adopted 1999)

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Lancaster regulations to a way of counting bedrooms that differs from Title 5.

Leicester

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Leicester regulations to requirements for design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Leicester regulations to minimum flow for single family septic design.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Leicester regulations to a way of counting bedrooms that differs from Title 5.

Leominster

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Leominster regulations to a requirement for design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Leominster regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Leominster regulations to a way of counting bedrooms.

Lexington

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Lexington regulations to design flow in gallons per bedroom per day.

E. The Board of Health may establish any special conditions necessary to ensure adequate protection of public health and safety and the environment and to ensure appropriate evaluation, inspection, maintenance, repairs and replacements. Such conditions may include, without limitation, flow limitations, monitoring, inspections, maintenance, testing and reporting requirements, a requirement that a certified operator operate the system and financial assurance mechanisms.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Lexington regulations to minimum flow for single family septic design.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Lexington regulations to definitions of bedrooms.

Lincoln

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

165 One provision in the Town of Lincoln's Board of Health, Supplementary Health Regulations may result in an increase in design flow:

"(2) area requirements shall be increased by 50% to provide for potential garbage grinder installation whether or not a garbage grinder is initially installed." Lincoln Board of Health Supplementary Health Regulations, Section 15:203(2) (effective 1/9/96).

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

495 One provision in the Town of Lincoln's Board of Health, Supplementary Health Regulations may result in an increase in design flow:

"(2) area requirements shall be increased by 50% to provide for potential garbage grinder installation whether or not a garbage grinder is initially installed." Lincoln Board of Health Supplementary Health Regulations, Section 15:203(2) (effective 1/9/96).

Does the municipality count bedrooms in a different way from Title 5's requirements?

No Lincoln's regulations do not refer to a change in method for counting bedrooms.

Littleton

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Littleton regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference to an increase in design flow per bedroom per day. However, the Littleton regulations set out the definition of a "bedroom" that in some cases would define more rooms as bedrooms, thus serving to increase the total minimum flow required.

Does the municipality count bedrooms in a different way from Title 5's requirements?

Yes "REGULATION 13: The definition of a bedroom: The definition of a bedroom for the purpose of sizing a subsurface sewage disposal system (proposed or existing) is as follows:
a. Any room or enclosed addition with at least 70 square feet of floor area, and a window, other than a kitchen, dining room, living room, bathroom or hallway space, or any room that meets the definition of a bedroom in Title 5, 310 CMR 15.002.
b. Any room other than a kitchen, dining room or living room in excess of 300 square feet that meets the definition of a bedroom shall be considered two rooms.
c. Any dwelling with six (6) rooms shall be construed to have three (3) bedrooms. Any dwelling with seven (7) rooms shall be construed to have four (4) bedrooms. Any dwelling with eight (8) rooms shall be construed to have five (5) bedrooms. Any dwelling with nine (9) rooms total shall be construed to have five (5) bedrooms. Dwellings that have ten (10) rooms or more shall be determined by dividing the total number of rooms by two (2), and rounding down to the next whole number." The Town of Littleton Board of Health Regulations, Requirements for the Subsurface Disposal of Sanitary Sewage, Regulation 13 (applicable as revised 8/11/03).

Lunenburg

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in Lunenburg regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in Lunenburg regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No From Article I: Definitions, "b) 'Bedroom' - as defined in Title 5, 310 CMR 15.002; definitions."
(Town of Lunenburg Board of Health Regulations, Adopted 1921, Amended 2002)

Manchester-by-the-Sea

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference to the design flow in gallons per bedroom per day in the Title V amendments.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference to the minimum single-family design flow in the Title V amendments.

Does the municipality count bedrooms in a different way from Title 5's requirements?

Yes The definition of a bedroom is the same as Title 5's, and single family dwellings are considered to have at least three bedrooms.

The bedroom count, however, is different from the state. From Section 3. Local Addenda to Title V, 3.2 Bedroom Count, "Where the:

[a]total number of rooms for a single family dwelling and its appurtenant habitable structure(s), excluding bathrooms(s), hallways(s), unfurnished cellar and unheated storage area, exceeds eight [8]; or

[b]total square footage for a single family dwelling and its appurtenant habitable structure(s), excluding bathroom(s), hallway(s), unfinished cellar and unheated storage area, exceeds 4,500 square feet,

Then the total number of bedrooms allowable shall be calculated by taking the lesser of the:

[c]total number of rooms divided by two, and rounding down to the next whole number; or

[d]total contiguous buildable upland land area divided by 10,000 square feet and rounding down to the next whole number.

The applicant may design a system using design flows for a smaller number of bedrooms than are presumed in this definition by granting to the approving authority a deed restriction limiting the number of bedrooms to the smaller number."

(Manchester-By-The-Sea Board of Health, Policies, Procedures and Local Addendum to Title V)

Mansfield

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Mansfield regulations to design flow.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Mansfield regulations to design flow.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Mansfield regulations to definitions of bedrooms.

Marshfield

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Marshfield regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

400 "All sewage flows shall be determined by SEC Title 5 except that the estimated total flow for any residence, apartment, cottage, rooming house, motel, or boarding house will be a minimum of 400 gallons per day." From Marshfield Rules and Regulations for the Disposal of Sanitary Sewage, Section 2.13 (Adopted 1978, Amended 2000).

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Marshfield regulations to a way of counting bedrooms.

Medfield

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference to the design flow in gallons per bedroom per day in the Medfield regulations.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

440 Although it falls under the leaching facility section, the town specifies that all new dwellings should be considered to have a minimum of four bedrooms. This means that the minimum design flow must be 440 gallons per day. From Section VII. Specifications for Systems, 4. Leaching Facilities, "A. General: Leaching trenches shall be used...C. Leaching beds or fields or chambers in a bed configuration will not be approved for new construction D. For new construction, all single family dwellings shall be designed for a minimum for 4 bedrooms..."

(Medfield BOH OSDS Regulations, Adopted 1995)

Does the municipality count bedrooms in a different way from Title 5's requirements?

Yes From Section III. Definitions, "BEDROOM - As defined in Title 5, supplemented as follows:
Any finished room having an area greater than 460 square feet shall be considered to be two rooms.
Where there are less than 8 rooms, all rooms above the first floor shall be considered bedrooms.
A bathroom is not considered to be a room."

(Medfield BOH OSDS Regulations, Adopted 1995)

Medway

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 Reference in the Medway regulations to design flow in gallons per bedroom per day indicates that Medway's design flow requirement is the same as the state's:

"For a residential dwelling, the sewage flow estimate shall be based on a minimum of three (3) bedrooms (330 GPD flow)." Medway Board of Health, Rules and Regulations for the Subsurface Disposal of Sanitary Sewage, Section B3- Design Flow (2/92, revised 2/95).

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 The Medway regulations require the minimum flow for single-family septic design to be "based on a minimum of three (3) bedrooms (330 GPD flow)" (same as the state). Medway Board of Health, Rules and Regulations for the Subsurface Disposal of Sanitary Sewage, Section B3 (2/92, revised 2/95).

The Medway Regulations also require a design flow of 300% of the estimated design flow when garbage grinders are to be installed. Medway Board of Health, Rules and Regulations for the Subsurface Disposal of Sanitary Sewage, Section B3 (2/92, revised 2/95).

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Medway Regulations to the definition of a 'bedroom' from Title 5.

Merrimac

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

150 From Section 1. Minimum General Requirements, "d)Minimum hydraulic sizing requirements shall be based on 150 gallons per bedroom per day."

(Merrimac Subsurface Sewage Disposal Systems Regulations, Amended 2000)

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

450 Since the minimum flow for each bedroom is assigned 150 gallons per bedroom per day, the minimum flow for a three bedroom home would be increased to 450 gallons per bedroom per day. From Section I. Minimum General Requirements, "d)Minimum hydraulic sizing requirements shall be based on 150 gallons per bedroom per day."

(Merrimac Subsurface Sewage Disposal Systems Regulations, Amended 2000)

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Merrimac regulations to a way of counting bedrooms that differs from Title 5.

Middleborough

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Middleborough regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Middleborough regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Middleborough regulations to a definition of bedrooms.

Middleton

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

150 The Middleton regulations require a design flow of 150 gallons per bedroom per day. Town of Middleton Rules and Regulations for On-Site Wastewater Disposal Systems, Section 3.01(a) (applicable as revised 4/5/00).

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

450 Middleton Regulations require in increased minimum design flow of 150 gallons per bedroom per day.

In addition, the Middleton Regulation require that, while the number of bedrooms should be counted according to the Title 5 definition of bedrooms, "rooms that could easily be converted into a bedroom shall be included in the room count." Town of Middleton Rules and Regulations for On-Site Wastewater Disposal Systems, Section 3.01(a,b) (applicable as revised 4/5/00).

In addition to the more stringent minimum design flow requirements, Middleton also requires that "Wastewater Disposal Systems for new construction shall be designed to accommodate a minimum of four bedrooms." Town of Middleton Rules and Regulations for On-Site Wastewater Disposal Systems, Section 3.01(c) (applicable as revised 4/5/00)

Does the municipality count bedrooms in a different way from Title 5's requirements?

Yes "Design flow calculations for dwellings shall be based on the total number of rooms in the dwelling, and not necessarily on the number of proposed bedrooms. The number of bedrooms shall be calculated in accordance with the State Sanitary Code 310 CMR 15.00. The plan shall clearly state the total number of rooms in the dwelling (not including hallways, bathrooms, unfinished basements or unheated areas). Rooms that could easily be converted into a bedroom shall be included in the room count." Town of Middleton Rules and Regulations for On-Site Wastewater Disposal Systems, Section 3.01(b) (applicable as revised 4/5/00).

Middleton requires that "Wastewater Disposal Systems for new construction shall be designed to accommodate a minimum of four bedrooms." Town of Middleton Rules and Regulations for On-Site Wastewater Disposal Systems, Section 3.01(c) (applicable as revised 4/5/00)

Survey received from Middleton on 3/28/05 marks the answer as "no." Since the regulations require that septic design accommodate a minimum of four bedrooms, the researcher left the answer as "yes."

Millbury

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Millbury regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Millbury regulations to design flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Millbury regulations to a definition for bedrooms.

Millis

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 According to the Millis Board of Health Subsurface Sewage Disposal Systems Regulations, Section 7(C) (effective 1995), "the maximum daily flow for a household for design purposes shall be based on water use of 110 gallons per bedroom per day."

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

- 330** According to the Millis Board of Health Subsurface Sewage Disposal Systems Regulations, Section 7(C) (effective 1995), "the maximum daily flow for a household for design purposes shall be based on water use of 110 gallons per bedroom per day."
Additionally, according to Section 7(A), "[t]he minimum design criteria is to be for a three-bedroom dwelling as defined by Title V."

Does the municipality count bedrooms in a different way from Title 5's requirements?

- No** According to the Millis Board of Health Subsurface Sewage Disposal Systems Regulations, Section 7(A)(effective 1995), "[t]he minimum design criteria is to be for a three-bedroom dwelling as defined by Title V."

Natick

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

- 150** According to Roger Wade, Director of Public Health, (8/5/04) there is a 150 gallon per bedroom per day requirement that has been in place since 1979.
The Board of Health Regulations, Section 23: "the computation of the average daily flow shall be based on water use of 75 gallons per capita per day. The number of people housed shall be based on two persons per bedroom."

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

- 450** The Natick regulations provide that "the computation of the average daily flow shall be based on water use of 75 gallons per capita per day. The number of people housed shall be based on two persons per bedroom." Natick Board of Health Regulations, Chapter 5, Section 23 (November 9, 1992).
When considered with the Title 5 requirement that all designs be made for at least 3 bedrooms (without a deed restriction), Natick's minimum flow requirement for single-family septic design is 450 gallons.

Does the municipality count bedrooms in a different way from Title 5's requirements?

- No** No reference in the Natick regulations to a way of counting bedrooms. Answer confirmed by Roger Wade, Director of Public Health, (8/5/04)

Newbury

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

- 110** No reference in the Newbury regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

- 330** No reference in the Newbury regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Newbury regulations to a way of counting bedrooms.

Norfolk

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference to required design flow in the Norfolk regulations.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference to minimum flow for single family septic design beyond Title 5 in the Norfolk regulations.

However, the Norfolk regulations do state that "septic tanks for new dwellings shall be designed to incorporate the use of a garbage grinder, whether or not such an installation is anticipated at the time of the application of the DSCP."

Norfolk Board of Health Regulations for the Siting, Construction, Inspection, Upgrade, Repair, and Expansion of On-Site Wastewater Disposal Systems, Section VII, Part 3(B)(1) (adopted 2/11/97).

Note: In survey received from Norfolk on 3/22/05 marks the answer as "330 gpd."

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference to a definition of bedrooms in the Norfolk regulations.

North Andover

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference to design flow in gallons per bedroom per day in the North Andover regulations.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

440 The North Andover regulations provide for "a minimum capacity to accommodate an average daily flow of 440 gallons" Town of North Andover, Minimum Requirements for the Subsurface Disposal of Sanitary Sewage, Section 9.01(4)(revised June 1997). The Regulations also state separately that "All soil absorption systems designed to serve a single dwelling shall be designed to serve a minimum of four bedrooms unless a waiver by the Board of Health permitting a deed restriction limiting use to three bedrooms is granted for sites where the larger system cannot be installed." Section 13.01.

In addition, the North Reading Regulations also provide for a modification to the Title 5 definition of bedroom, which may serve to define more rooms in the house as bedrooms for the purpose of septic design than would Title 5 alone:

"1.05 Bedroom:

"Single family dwellings shall be presumed to have at least four bedrooms. When there are more than nine rooms in a dwelling, the total number of rooms shall be added and divided by two to determine the total number of bedrooms. Deed restriction variances for existing dwellings with fewer than four bedrooms may be granted by the Board of Health when a larger disposal system cannot be installed on the site. The higher number of bedrooms shall prevail for design purposes for new construction." Section 1.05.

Does the municipality count bedrooms in a different way from Title 5's requirements?

Yes The North Reading Regulations provide for a modification to the Title 5 definition of bedroom, which may serve to define more rooms in the house as bedrooms for the purpose of septic design:
"1.05 Bedroom:
"Single family dwellings shall be presumed to have at least four bedrooms. When there are more than nine rooms in a dwelling, the total number of rooms shall be added and divided by two to determine the total number of bedrooms. Deed restriction variances for existing dwellings with fewer than four bedrooms may be granted by the Board of Health when a larger disposal system cannot be installed on the site. The higher number of bedrooms shall prevail for design purposes for new construction."
Town of North Andover, Minimum Requirements for the Subsurface Disposal of Sanitary Sewage, Section 1.05 (revised June 1997).

North Attleborough

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the North Attleborough regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 North Attleboro's regulations stipulate that the leaching area must be designed to accommodate a minimum of 330 gallons per day, which is consistent with Title V.

"The minimum leaching area to be installed shall be determined as set forth in Title 5 but no less than 330 gallons/day." Town of North Attleboro Rules and Regulations for Septic Systems & Cesspools, Section V (E.2), (Adopted 1998).

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the North Attleborough regulations to a definition of bedrooms.

North Reading

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the North Reading regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the North Reading regulations to minimum flow for single family septic design.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the North Reading regulations to a change in the way bedrooms are counted according to Title 5.

Northbridge

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Northbridge regulations to a requirement for design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Northbridge regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Northbridge regulations to a way of counting bedrooms.

Norton

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 "All subsurface sewage disposal systems will be designed using the Flow Design Criteria set forth in the Massachusetts State Environmental Code Title V, Regulation 310 CMR 15.203 as long as the sections 310 CMR 15.242 and 310.253 remain in force and effect as of 3/31/95, or are changed to require larger leaching system areas for a given flow rate. If, at any time, Section 310 CMR 15.242 and 310 CMR 15.253 are deleted, altered, or superceded to allow for smaller leaching area requirement will revert to 165 gpd per bedroom for residential structures until such time as the Board of Health takes action to change the requirement."

From Norton Rules and Regulations of the Board of Health,
Section 3.14 (Revised 2002).

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 "All subsurface sewage disposal systems will be designed using the Flow Design Criteria set forth in the Massachusetts State Environmental Code Title V, Regulation 310 CMR 15.203 as long as the sections 310 CMR 15.242 and 310.253 remain in force and effect as of 3/31/95, or are changed to require larger leaching system areas for a given flow rate. If, at any time, Section 310 CMR 15.242 and 310 CMR 15.253 are deleted, altered, or superceded to allow for smaller leaching area requirement will revert to 165 gpd per bedroom for residential structures until such time as the Board of Health takes action to change the requirement."

From Norton Rules and Regulations of the Board of Health,
Section 3.14 (Revised 2002).

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Norton regulations to a way of counting bedrooms.

Norwell

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference to design flow in gallons per bedroom per day in the Norwell regulations.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference to minimum flow requirement for single family design above the state's requirements.

The Norfolk Regulations state that "the entire town will be considered nitrogen sensitive for new construction as defined and described in 310 CMR 15.214 through 15.217." Town of Norwell Board of Health Rules and Regulations, Sanitary Disposal of Sewage, Management of Private Water Supplies, & Floor Drainage Regulations, Part 2, Section 8 (adopted 8/13/73, effective with amendments and revisions 1/1/04).

Thus, while researcher determined that there is no additional minimum flow for single-family design in Norwell, there may be a maximum flow limit in accordance with Title 5's limitations in nitrogen sensitive areas.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference to a change in bedroom definitions in the Norwell regulations.

Pembroke

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

150 Single-family septic systems must be designed to accommodate a minimum of 450 gpd or 150 gallons/bedroom per day, unless a deed restriction is placed on the house that limits the number of bedrooms to two. In this case, the minimum allowable gpd is 300, still 150 gallons/bedroom per day.

"System Sewage Flow Design Criteria

Type of Establishment	Unit	GPD	Minimum Allowable GPD for system
(2) Residential			
Bed & Breakfast	per b/r	150	400
Bed & Breakfast with restaurant open to public	per b/r	150	1000
Camp, resident, mess hall	per seat	35	
Camp, day, washroom and toilets	per person*	10	
Camp day, mess hall	per person	10	
Campground, showers and toilets	per person	3	
Family Dwelling, Single	per b/r	150	450**
Family Dwelling, Multiple	per b/r	150	***
Family Mobile Home Park	per b/r	150	
Motel, Hotel Boarding House	per b/r	150	
Retirement Mobile Home Park	per site	150	
Housing for the elderly	per unit	150	
Work/Construction Camp	per person	75	

*Person in the context of 310 CMR 15.203 shall mean an individual.

**A system may be designed for flows of 300 gpd, if a restriction limiting use of the dwelling to two bedrooms is provided, as described in the definition of "bedroom" in 320 CMR 15.002.

*** The number of bedrooms in a condominium shall be as specified in the Master Deed. Establishment of bedrooms in excess of the specified number shall be considered an increase in design flow."

From the Pembroke Subsurface Sanitary Sewage Disposal, table in Section 15.203 (6), (Adopted March 1995).

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

450 Single-family septic systems must be designed to accommodate a minimum of 450 gpd, unless a deed restriction is placed on the house that limits the number of bedrooms to two. In this case, the minimum allowable gpd is 300.

"System Sewage Flow Design Criteria

Type of Establishment	Unit	GPD	Minimum Allowable GPD for system
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(2) Residential			
Bed & Breakfast	per b/r	150	400
Bed & Breakfast with restaurant open to public	per b/r	150	1000
Camp, resident, mess hall	per seat	35	
Camp, day, washroom and toilets	per person*	10	
Camp day, mess hall	per person	10	
Campground, showers and toilets	per person	3	
Family Dwelling, Single	per b/r	150	450**
Family Dwelling, Multiple	per b/r	150	***
Family Mobile Home Park	per b/r	150	
Motel, Hotel Boarding House	per b/r	150	
Retirement Mobile Home Park	per site	150	
Housing for the elderly	per unit	150	
Work/Construction Camp	per person	75	

*Person in the context of 310 CMR 15.203 shall mean an individual.

**A system may be designed for flows of 300 gpd, if a restriction limiting use of the dwelling to two bedrooms is provided, as described in the definition of "bedroom" in 320 CMR 15.002.

*** The number of bedrooms in a condominium shall be as specified in the Master Deed. Establishment of bedrooms in excess of the specified number shall be considered an increase in design flow."

From the Pembroke Subsurface Sanitary Sewage Disposal, table in Section 15.203 (6), (Adopted March 1995).

Does the municipality count bedrooms in a different way from Title 5's requirements?

No Pembroke's supplementary regulations omit the language (that is in Title 5): "Single family dwellings shall be presumed to have at least three bedrooms." However, their rules on minimum gpd demonstrate that Pembroke also presumes a 3-bedroom minimum.

"Bedroom - A room providing privacy, intended primarily for sleeping and consisting of all of the following:

- (a) floor space of no less than 70 square feet;
- (b) for new construction, a ceiling height of no less than 7'3";
- (c) for existing houses and for mobile homes, a ceiling height of no less than 7'0";
- (d) an electrical service and ventilation; and
- (e) at least one window.

Living rooms, dining rooms, kitchens, halls, bathrooms, unfinished cellars and unheated storage areas over garages are not considered bedrooms. Where the total number of rooms for single family dwellings exceeds eight, not including bathrooms, hallways, unfinished cellars and unheated storage areas, the number of bedrooms presumed shall be calculated by dividing the total number of rooms by two then rounding down to the next lowest whole number. The applicant may design a system using design flows for a smaller number of bedrooms than are presumed in this definition by granting to the approving authority a deed restriction limiting the number of bedrooms to the smaller number."

From the Pembroke Subsurface Sanitary Sewage Disposal Supplementary Rules and Regulations to State Environmental Code TITLE 5, Section 15.002 (Adopted March 1995).

Single-family septic systems must be designed to accommodate a minimum of 450 gpd or 150 gallons/bedroom per day, unless a deed restriction is placed on the house that limits the number of bedrooms to two. In this case, the minimum allowable gpd is 300, still 150 gallons/bedroom per day.

"System Sewage Flow Design Criteria

Type of Establishment	Unit	GPD	Minimum Allowable GPD for system
(2) Residential			
Bed & Breakfast	per b/r	150	400
Bed & Breakfast with restaurant open to public	per b/r	150	1000
Camp, resident, mess hall	per seat	35	
Camp, day, washroom and toilets	per person*	10	
Camp day, mess hall	per person	10	
Campground, showers and toilets	per person	3	
Family Dwelling, Single	per b/r	150	450**
Family Dwelling, Multiple	per b/r	150	***
Family Mobile Home Park	per b/r	150	
Motel, Hotel Boarding House	per b/r	150	
Retirement Mobile Home Park	per site	150	
Housing for the elderly	per unit	150	
Work/Construction Camp	per person	75	

*Person in the context of 310 CMR 15.203 shall mean an individual.

**A system may be designed for flows of 300 gpd, if a restriction limiting use of the dwelling to two bedrooms is provided, as described in the definition of "bedroom" in 320 CMR 15.002.

*** The number of bedrooms in a condominium shall be as specified in the Master Deed. Establishment of bedrooms in excess of the specified number shall be considered an increase in design flow." From the Pembroke Subsurface Sanitary Sewage Disposal, table in Section 15.203 (6), (Adopted March 1995).

Pepperell

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

- 150** From amendment 15.02 (13), "[s]ewage flow estimates. Single and Multiple dwelling units - per bedroom - motels, hotels and boarding homes SHALL increase to 150 GALLONS per bedroom per day."
(Town of Pepperell Supplemental Regulations to Title 5, Adopted 1990)

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

- 450** The town increases the design flow gallons required per bedroom per day, so for a three bedroom house the minimum flow would have to be 450 gallons per day. From amendment 15.02 (13), "[s]ewage flow estimates. Single and Multiple dwelling units - per bedroom - motels, hotels and boarding homes SHALL increase to 150 GALLONS per bedroom per day."
(Town of Pepperell Supplemental Regulations to Title 5, Adopted 1990)

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Pepperell regulations to a way of counting bedrooms.

Plainville

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Plainville regulations to design flow in gallons per bedroom per day.

5.6.3 SEPTIC TANKS

A. The maximum liquid depth of septic tanks shall be as follows:

Tanks < 2000 gallons or less - 5 feet

Tanks > 2000 gallons up to 4000 gallons - 6 feet

Tanks > 4000 gallons - 7 feet

B. Septic tanks shall have minimum liquid capacities as follows:

(1) SEPTIC TANKS FOR SINGLE FAMILY DWELLINGS

Septic tanks for new dwellings shall be designed to incorporate the use of a garbage grinder, whether or not such an installation is anticipated at the time of the application of the DSCP.

Minimum liquid capacity for any dwelling facility shall be 1,500 gallons.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Plainville regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Plainville regulations to a way of counting bedrooms.

Plymouth

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Plymouth regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

440 From Amendment 2 under "Regulation 2. General Requirements", "[v]olume of sanitary sewage. (Modifies SEC Title V, Regulation 15.203). All sewage flows shall be determined by SEC Title V except that the estimated total flow for any new residence, apartment, cottage, rooming house, motel, boarding house, dwelling or dwelling unit shall be a minimum of 440 gallons per day."

(Plymouth Supplements to Title 5, Adopted 2004)

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Plymouth regulations to a way of counting bedrooms.

Plympton

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Plympton regulations to design flow in gallons per bedroom per day.

From the amendment to 15.203, "System Sewage Flow design criteria(8) The minimum septic design for any dwelling unit will be 440 gallons per day."

(Plympton Board of Health Title V Amendments)

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

440 From the amendment to 15.203, "System Sewage Flow design criteria(8) The minimum septic design for any dwelling unit will be 440 gallons per day."

(Plympton Board of Health Title V Amendments)

"15.240 Soil Absorption Systems

(4) ... Area requirements will be increased by 100% when garbage grinders are installed

(5) All soil absorption systems designed to serve a single dwelling shall be designed to serve a minimum of four bedrooms ..."

(Plympton Board of Health Title V Amendments)

Does the municipality count bedrooms in a different way from Title 5's requirements?

Yes "15.240 Soil Absorption Systems
(4) ... Area requirements will be increased by 100% when garbage grinders are installed
(5) All soil absorption systems designed to serve a single dwelling shall be designed to serve a minimum of four bedrooms ..."

(Plympton Board of Health Title V Amendments)

Raynham

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

165 No reference in the Raynham regulations to design flow in gallons per bedroom per day.

"When calculating the leaching area required for a septic system, the design capacity of the system must meet or exceed 150% of the capacity required by 310 CMR 15.000, State Environmental Code, Title V." From the Town of Raynham Regulations Pertaining to the Design, Construction and Maintenance of Sewage Disposal Systems, "Design and Construction" (Adopted 2003).

Survey received from Raynham in June 2005, completed by Alan Perry:

"165 or (150% of Title V)"

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

495 "When calculating the leaching area required for a septic system, the design capacity of the system must meet or exceed 150% of the capacity required by 310 CMR 15.000, State Environmental Code, Title V." From the Town of Raynham Regulations Pertaining to the Design, Construction and Maintenance of Sewage Disposal Systems, "Design and Construction" (Adopted 2003).

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Raynham regulations to a way of counting bedrooms.

Rehoboth

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

137.5 The town of Rehoboth increases the flow rate per bedroom by 25%. The town lifts that restriction for elderly housing. From amendment 8.4, "[s]oil absorption area calculations are to be performed using CMR 15.203. In addition, septic system design shall increase the calculated system daily flow rates by 25% for sizing of the soil absorption system for residential facilities up to and including 4 bedrooms. Five bedroom dwellings shall have a design rate of 550 G.P.D. (see Section 8.6). The minimum system sewage design flow for a single family residence shall be based on the flow rate for three bedrooms. Elderly housing restricted to use by adults over 55 years of age in accordance with 42 USC 3601 is exempt from the 25% increase requirement."

(Town of Rehoboth Supplementary Rules and Regulations to the State Environmental Code: Title 5, 310 CMR 15.000 (Rev. E12-10-2002), Amended 2002)

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

412.5 The town of Rehoboth increases the flow rate per bedroom by 25%. The town lifts that restriction for elderly housing. From amendment 8.4, "[s]oil absorption area calculations are to be performed using CMR 15.203. In addition, septic system design shall increase the calculated system daily flow rates by 25% for sizing of the soil absorption system for residential facilities up to and including 4 bedrooms. Five bedroom dwellings shall have a design rate of 550 G.P.D. (see Section 8.6). The minimum system sewage design flow for a single family residence shall be based on the flow rate for three bedrooms. Elderly housing restricted to use by adults over 55 years of age in accordance with 42 USC 3601 is exempt from the 25% increase requirement."

(Town of Rehoboth Supplementary Rules and Regulations to the State Environmental Code: Title 5, 310 CMR 15.000 (Rev. E12-10-2002), Amended 2002)

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Rehoboth regulations to a way of counting bedrooms.

Rockport

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Rockport regulations to a requirement for design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Rockport regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Rockport regulations to a way of counting bedrooms.

Rowley

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

150 "Designs for a sanitary sewerage disposal area based on a minimum flow of 150 gallons per day per bedroom for single and multiple residences." Town of Rowley Regulations in addition to Title 5 and Relating to Private Water Supplies and Wastewater, Section 3.1 (s) (Adopted 2002).

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

450 Flow per bedroom has been increased. Therefore, minimum flow for a house of 3 bedrooms would be 450 gpd.

"Designs for a sanitary sewerage disposal area based on a minimum flow of 150 gallons per day per bedroom for single and multiple residences." Town of Rowley Regulations in addition to Title 5 and Relating to Private Water Supplies and Wastewater, Section 3.1 (s) (Adopted 2002).

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Rowley regulations to a definition of bedrooms.

Salisbury

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Salisbury regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Salisbury regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Salisbury regulations to a way of counting bedrooms.

Scituate

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Scituate regulations to a requirement for design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Scituate regulations to a required minimum flow for single-family septic design.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Scituate Regulations to a modification of the Title 5 definition of 'bedroom.'

Sharon

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Sharon regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 The Sharon regulations do not increase the design flow for single family systems beyond the Title 5 requirement.

7.06 GARBAGE GRINDERS: No garbage grinder shall hereafter be installed in an existing building without a permit from the Board of Health, and no garbage grinder shall be installed in a new or existing building unless the system has been designed for its installation. It is noted that garbage grinders are not recommended where they discharge to subsurface disposal facilities.

Town of Sharon, Article 7, Septic Regulations, section 7.06 (applicable as amended 1/26/04).

Does the municipality count bedrooms in a different way from Title 5's requirements?

Yes 7.01 DEFINITIONS

(2) ADDITIONAL DEFINITIONS: The words, terms, phrases, abbreviations and acronyms listed below for the purpose of these regulations shall be defined and interpreted as follows:

(a) Bedroom: Any area in a dwelling unit which is or could be used for the provision of private sleeping accommodations for residents of the premises, whether such area is designated as a bedroom, guestroom, maid's room, dressing room, den, study, library, or by another name. Any room intended for regular use by all occupants of the dwelling unit such as a living room, dining area or kitchen shall not be considered a bedroom, nor shall bathrooms, halls or closets having no horizontal dimension over six (6) feet. Town of Sharon, Article 7, Septic Regulations, section 7.01(2)(a) (applicable as amended 1/26/04).

Sherborn

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

165 The Sherborn regulations require that "the maximum daily flow for a household for design purposes shall be based on water use of 55 gallons per capita per day, and the number of people housed should be considered to be two people per bedroom. In addition, the regulations require that "all residential system leaching areas shall be designed with sufficient capacity to meet the requirements for the use of garbage grinders, that is, 150 percent of the maximum daily flow." Sherborn Board of Health Regulations, Section I, 7.1 (A) (effective as of reprint date of 2/2004).

Thus, researcher determined that the daily flow is determined by counting two persons per bedroom, factoring 55 gallons per person, and then increasing that number by 150% to factor in a garbage grinder, whether or not a garbage grinder is planned.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

495 "7.1 LEACHING AREA SIZE

A. The maximum daily flow for a household for design purposes shall be based on water use of 55 gallons per capita per day. The number of people housed shall be based on two persons per bedroom. A bedroom is any room other than a kitchen, dining room, living room, bathroom, den, playroom, family room, and/or library on the first floor. Any room larger than 450 square feet shall be considered two rooms. Any room above the first floor shall be considered to be a bedroom. In all cases the number of bedrooms shall not be less than on half (1/2) the total number of rooms in the house rounded down (if necessary) to the closest whole number. To be counted as a room, the space must be habitable per the Massachusetts housing code. All single family dwellings shall be designed for a minimum of three (3) bedrooms. All residential system leaching areas shall be designed with sufficient capacity to meet the requirements for the use of garbage grinders, that is, 150 percent of the maximum daily flow." Sherborn Board of Health Regulations, Section I, 7.1 (effective as of reprint date of 2/2004).

Thus, researcher determined that the Sherborn Regulations require an increase in the calculated design flow per bedroom per day by 150% in all situations. In addition, the Sherborn Regulations include a more inclusive definition of bedrooms than Title 5, increasing the potential that additional bedrooms will need to be considered in the design flow calculation.

Does the municipality count bedrooms in a different way from Title 5's requirements?

Yes The Sherborn regulations define a bedroom as "any room other than a kitchen, dining room, living room, bathroom, den, playroom, family room, and/or library on the first floor. Any room larger than 450 square feet shall be considered two rooms. Any room above the first floor shall be considered to be a bedroom. In all cases the number of bedrooms shall not be less than on half (1/2) the total number of rooms in the house rounded down (if necessary) to the closest whole number. To be counted as a room, the space must be habitable per the Massachusetts housing code. All single family dwellings shall be designed for a minimum of three (3) bedrooms." Sherborn Board of Health Regulations, Section I, 7.1(A) (effective as of reprint date of 8/12).

Shirley

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 The researcher did not find any reference to the design flow in gallons per bedroom per day for single family units. However, there is an increase flow requirement for a duplex. From amendment 10.2, "[f]or a duplex bedroom flows should be figured at 150 gallons per day."

(Shirley Board of Health Regulations for Sewage Disposal, Adopted 1984, Amended 1995)

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 The researcher did not find any reference to the design flow in gallons per bedroom per day for single family units. However, there is an increase flow requirement for a duplex. From amendment 10.2, "[f]or a duplex bedroom flows should be figured at 150 gallons per day."

(Shirley Board of Health Regulations for Sewage Disposal, Adopted 1984, Amended 1995)

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Shirley regulations to a way of counting bedrooms.

Shrewsbury

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Shrewsbury regulations to a requirement for design flow in gallon per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Shrewsbury regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Shrewsbury regulations to a way of counting bedrooms.

Southborough

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Southborough regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Southborough regulations to requirements for single family septic design flow beyond Title 5's requirements.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in Southborough regulations to a modification to Title 5's way of counting bedrooms.

Sterling

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Sterling regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No increase in design flow for a three bedroom house.

The town of Sterling does not allow a house to be deed restricted to reduce the number of bedrooms. From Section 3. Definition of a Bedroom, "A deed restriction may not be used to reduce the number of bedrooms."

(Sterling Board of Health, Adopted 1995)

Does the municipality count bedrooms in a different way from Title 5's requirements?

Yes From Section 3. Definition of a Bedroom, "A bedroom means any portion of a dwelling which is so designed as to furnish the minimum isolation necessary for use as a sleeping area. Such area shall not include kitchen, bathrooms, living room, dining area, halls or unfinished cellar; but may include bedroom, den, study, studios or sleeping loft. A deed restriction may not be used to reduce the number of bedrooms."

(Sterling Board of Health, Adopted 1995)

Stoughton

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 The town engineer said (1/4/05) that the Septic Regulations (Adopted Sept. 1976) follow Title 5 in every way except that the area requirement for the leaching fields is doubled.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 The town engineer said (1/4/05) that the Septic Regulations (Adopted Sept. 1976) follow Title 5 in every way except that the area requirement for the leaching fields is doubled.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No The town engineer said (1/4/05) that the Septic Regulations (Adopted Sept. 1976) follow Title 5 in every way except that the area requirement for the leaching fields is doubled.

Stow

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Stow regulations to an increase in required minimum design flow per bedroom per day. However, the Stow Regulations do require a leaching area size large enough to handle 150% of the estimated design flow. Stow Board of Health Regulations, Section C (effective as amended 11/21/96).

"LEACHING AREA REQUIREMENT REGULATION

A leaching area shall have an effective square footage to handle 150% of the estimated design flow, as defined in Section 15.02 of Title 5."

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Stow regulations to a change in the way Title 5 counts bedrooms.

Sudbury

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 The only reference to design flow in the Sudbury regulations regards multi-family residences.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference to minimum flow requirements for single family septic design in the Sudbury regulations.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No The only reference researcher found to the definition of a bedroom regarded multi-family housing. Researcher determined that the Sudbury regulations define bedrooms for single-family homes in the same manner as the state.

Sutton

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Sutton regulations to a requirement for design flow in gallons per bedroom per day.

The town does define a maximum loading rate that the researcher has noted as the *minimum* loading rate in other Title 5 supplements (see Douglas, Northbridge). According to Section C.3, "[t]he maximum effluent loading rate for design shall be 0.6 gpd/sq.ft." The researcher assumed this was a typo, and the town was specifying the minimum flow rate.

(Sutton Board of Health Title V Amendments, Amended 2003)

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Sutton regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Sutton regulations to a way of counting bedrooms.

Swansea

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Swansea regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Swansea regulations to design flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Swansea regulations to a definition for bedrooms.

Tewksbury

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference to design flow in the Tewksbury regulations.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference to minimum flow for single family septic design in the Tewksbury regulations.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Tewksbury regulations to bedroom definitions.

Topsfield

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

200 The Topsfield regulations provide for an increase in design flow in gallons per bedroom per day over the Title 5 requirement: "The determination of a minimum daily sewage flow to be used for design of systems for residential or boarding and lodging house use shall be calculated at the rate of one-hundred (100) gallons per person, with a minimum calculation of two (2) persons for each bedroom. Rooms, other than living room, dining room, bathroom and kitchen may be considered as bedrooms for computing septic system size." Topsfield Board of Health, Supplemental Regulations to 310 CMR, 15.00 Title 5 of the State Environmental Code, Section 8(a) (effective 7/1/87).

In addition, the Topsfield regulations reserve for the Board of Health the authority to "make the decision whether or not to consider a room a bedroom for the purpose of these regulations." Section 8(a).

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

600 The Topsfield regulations provide an increase in the minimum design flow per bedroom per day in the following way: "The determination of a minimum daily sewage flow to be used for design of systems for residential or boarding and lodging house use shall be calculated at the rate of one-hundred (100) gallons per person, with a minimum calculation of two (2) persons for each bedroom." Topsfield Board of Health, Supplemental Regulations to 310 CMR, 15.00 Title 5 of the State Environmental Code, Section 8(a) (effective 7/1/87).

In addition, the Topsfield regulations do not modify the definition of minimum bedrooms per design, but add that: "Rooms, other than living room, dining room, bathroom and kitchen may be considered as bedrooms for computing septic system size," which may serve to increase the number of bedrooms to be considered when calculating design flow. Section 8(a).

Thus, researcher determined that the minimum possible single-family design flow in Topsfield is greater than Title 5 because Topsfield requires 200 gallons per bedroom, and may include more bedrooms in the calculation than would be included by the strict Title 5 provisions. The minimum flow possible in Topsfield, without deed restriction to one or two bedrooms, is 600 gallons per day.

Does the municipality count bedrooms in a different way from Title 5's requirements?

Yes The Topsfield regulations determine the number of bedrooms for the purpose of septic design flow calculations in the following manner: "Rooms, other than living room, dining room, bathroom and kitchen may be considered as bedrooms for computing septic system size. The Board of Health shall make the decision whether or not to consider a room a bedroom for the purpose of these regulations." Topsfield Board of Health, Supplemental Regulations to 310 CMR, 15.00 Title 5 of the State Environmental Code, Section 8(a) (effective 7/1/87).

Thus, researcher determined that the Topsfield Regulations are more inclusive than Title 5 when determining bedrooms, making more rooms eligible to be considered when calculating design flow requirements.

Townsend

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Townsend regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Townsend regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Townsend regulations to a way of counting bedrooms.

Tyngsborough

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 "Domestic wastewater flows from all dwellings shall be based upon a factor of 110 gallons per day per bedroom. All living space is to be considered bedrooms with the exception of one living room, one kitchen, one attached (Addition) family or great room, and all bathrooms. All other rooms shall be considered as bedrooms for design purposes. Floor plans of the proposed and/or existing dwelling must be submitted with the sewage disposal system plan. Floor plans must also be submitted with commercial or industrial septic system plans." From the Town of Tyngsborough's Supplemental Regulations to Title 5, 3.2 (L) (Adopted 1998).

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 "Domestic wastewater flows from all dwellings shall be based upon a factor of 110 gallons per day per bedroom. All living space is to be considered bedrooms with the exception of one living room, one kitchen, one attached (Addition) family or great room, and all bathrooms. All other rooms shall be considered as bedrooms for design purposes. Floor plans of the proposed and/or existing dwelling must be submitted with the sewage disposal system plan. Floor plans must also be submitted with commercial or industrial septic system plans." From the Town of Tyngsborough's Supplemental Regulations to Title 5, 3.2 (L) (Adopted 1998).

Does the municipality count bedrooms in a different way from Title 5's requirements?

Yes "Domestic wastewater flows from all dwellings shall be based upon a factor of 110 gallons per day per bedroom. All living space is to be considered bedrooms with the exception of one living room, one kitchen, one attached (Addition) family or great room, and all bathrooms. All other rooms shall be considered as bedrooms for design purposes. Floor plans of the proposed and/or existing dwelling must be submitted with the sewage disposal system plan. Floor plans must also be submitted with commercial or industrial septic system plans." From the Town of Tyngsborough's Supplemental Regulations to Title 5, 3.2 (L) (Adopted 1998).

Upton

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Upton regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Upton regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Upton regulations to a way of counting bedrooms.

Uxbridge

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Uxbridge regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Uxbridge regulations to minimum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Uxbridge regulations to a way to count bedrooms.

Walpole

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

- 110** No reference in the Walpole regulations to a requirement for design flow in gallons per bedroom per day.
- "1) Leaching area requirements must be increased by 50 percent for all new construction on-site septic systems." Walpole Board of Health, Rules & Regulations & Procedure for Construction of On-Site Septic Systems, Section 1, (Revised September 19, 2004)
- Agent Gail Nixon informed researcher on 8/10/04 that this 50% requirement serves to increase the size of the fields 50% over the adequate system size for the home, whether or not a garbage grinder is planned. For example, she stated that if two trenches are adequate for leaching, Walpole will require three, whether or not a garbage grinder is to be installed.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

- 330** No reference in the Walpole regulations to minimum flow for single family septic design.

Does the municipality count bedrooms in a different way from Title 5's requirements?

- No** No reference in Walpole regulations to a method for counting bedrooms.

Wayland

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

- 165** The Wayland regulations specify design flow per bedroom per day as follows:
- "C: LEACHING FACILITIES
1. Volume of Sanitary Sewage: The volume of daily sewage flow shall be determined in accordance with 310 CMR 15.203, with the following exceptions:
New Construction: Single and Multiple 165 Gal/day Dwelling Units (per bedroom)"
- Wayland Board of Health Regulations for On-Site Subsurface Sewage Disposal Systems, Section II(C)(1) (Adopted 1974, Revised 1999)

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

- 495** The Wayland Regulations specify design flow per bedroom per day as follows:
- "C: LEACHING FACILITIES
1. Volume of Sanitary Sewage: The volume of daily sewage flow shall be determined in accordance with 310 CMR 15.203, with the following exceptions:
New Construction: Single and Multiple 165 Gal/day Dwelling Units (per bedroom)"
- Wayland Board of Health Regulations for On-Site Subsurface Sewage Disposal Systems, Section II(C)(1) (Adopted 1974, Revised 1999)
- Researcher determined that the minimum single-family design flow for a single-family septic design is 495 gallons per day for a 3-bedroom home, or 330 gallons per day for a 2-bedroom home with deed restriction as set out in the definition of bedroom at Title 5, Section 15.002.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Wayland regulations to a change in the way Title 5 counts bedrooms.

Wellesley

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 Town of Wellesley bylaws, Chapter V Subsurface Sewage Disposal Systems, Section 3.01 (revised 2003)

"All designs shall provide sufficient capacity for accommodating a garbage grinder."

The bylaw does not say that the minimum design flow must be 165 gallons per bedroom per day, but since the state requires that systems with garbage disposals be designed for 165 gallons, researchers concluded that the municipality requires 165 for all systems.

Answer changed back to 110 because survey response from Wellesley (Leonard Izzo) received on 4/15/05 states: "same as Title 5."

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 Town of Wellesley bylaws, Chapter V Subsurface Sewage Disposal Systems, Section 3.01 (revised 2003)

"All designs shall provide sufficient capacity for accommodating a garbage grinder."

The bylaw does not say that the minimum design flow must be 165 gallons per bedroom per day, but since the state requires that systems with garbage disposals be designed for 165 gallons, researchers concluded that the municipality requires 165 for all systems.

Answer changed back to 330 because survey response from Wellesley (Leonard Izzo) received on 4/15/05 states: "same as Title 5."

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Wellesley regulations to a way to count bedrooms.

West Bridgewater

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the West Bridgewater regulations to a requirement for design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the West Bridgewater regulations to minimum flow for single family systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the West Bridgewater regulations to a method for counting bedrooms.

West Newbury

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

150 According to Section II (B), "[d]esign flow: the system will be designed for 150 gal/day per bedroom."
(West Newbury Board of Health Regulations for Percolation Testing and Septic Systems, Adopted 2003, Amended 2003)

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

450 The town does increase the minimum flow for each bedroom to 150 gallons per day, and therefore a 3 bedroom house would be designed for 450 gallons per day. According to Section II (B), "[d]esign flow: the system will be designed for 150 gal/day per bedroom."
(West Newbury Board of Health Regulations for Percolation Testing and Septic Systems, Adopted 2003, Amended 2003)

Does the municipality count bedrooms in a different way from Title 5's requirements?

No The West Newbury regulations include the state definition for a bedroom.

Westford

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

150 The Westford regulations provide that: "Plans designed to serve residential populations shall be designed with a system capacity of one hundred fifty (150) gallons per day per bedroom." Westford Board of Health Regulations, Requirements for the Subsurface Disposal of Sanitary Sewage, Section 6.2 (undated).

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

450 The Westford regulations state that "Plans designed to serve residential populations shall be designed with a system capacity of one hundred fifty (150) gallons per day per bedroom." Westford Board of Health Regulations, Requirements for the Subsurface Disposal of Sanitary Sewage, Section 6.2 (undated).

In addition, according to Section 2.0 of the Westford Regulations, Westford follows the Title 5 definition of bedrooms.

Thus, researcher determined that Westford requires a system to be designed with minimum required flow of 450 gallons per day, at 150 gallons per day per bedroom with the state-required 3-bedroom design.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No The Westford regulations refer specifically to the Title 5 definition of a bedroom, indicating that the state definition should be followed. Westford Board of Health Regulations, Requirements for the Subsurface Disposal of Sanitary Sewage, Section 2.0 (undated). In addition, researcher found no other reference to a limitation on the Title 5 3-bedroom design requirement, or on the Title 5 allowance of a 2-bedroom design with deed restriction.

Weston

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

165 The sewage disposal regulations mandate a flow that is 150% over that required by Title 5, which is 110 gallons per bedroom per day, which means that Weston requires 165 gallons per bedroom per day.

CHAPTER VI of the Weston Board of Health Regulations - SEWAGE DISPOSAL SYSTEMS, Section 2.4 (Adopted 2001, Amended 2002) Garbage Grinders: "Garbage grinders are inherently destructive to soil absorption systems. Consequently, the use of garbage grinders is discouraged. However, all residential sewage disposal systems shall be designed for an increase of 150% over that required by title V. This increase is to prolong the life of a septic system in the event that a garbage grinder is used or installed in the future."

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

495 The sewage disposal regulations mandate a flow that is 150% over that required by Title 5, which is 110 gallons per bedroom per day, which means that Weston requires 165 gallons per bedroom per day.

CHAPTER VI of the Weston Board of Health Regulations - SEWAGE DISPOSAL SYSTEMS, Section 2.4 (Adopted 2001, Amended 2002) Garbage Grinders: "Garbage grinders are inherently destructive to soil absorption systems. Consequently, the use of garbage grinders is discouraged. However, all residential sewage disposal systems shall be designed for an increase of 150% over that required by title V. This increase is to prolong the life of a septic system in the event that a garbage grinder is used or installed in the future."

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Weston regulations to a way of counting bedrooms.

Wilmington

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Wilmington regulations to design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

440 Researcher found that the following provision requires a minimum flow designed for a four-bedroom home, unless certain criteria are met showing that the home is designed for fewer bedrooms:

"5.2 Minimum requirements for design criteria:

- 800 square feet minimum in a leach bed.
- 4 Bedroom minimum flow per unit.

"5.3 These regulations are meant only to protect the public health and are in no way intended to restrict the construction of homes or other authorized uses. In the event that a disposal system cannot be designed according to the above criteria, the number of bedrooms may be reduced, provided that a notice of the actual number of bedrooms shall be recorded in the registry of deeds and a copy of said notice shall be presented to the Board of Health before the issuance of any certificate of compliance

for that system or occupancy permit for that dwelling.

"5.3.1 A letter explaining the applicant's intention to restrict the number of bedrooms to a number less than four and promising to record the restriction with the registry of deeds shall be submitted with the application for the disposal system construction permit.

Town of Wilmington Massachusetts Board of Health Code of Regulations, Sections 5.2, 5.3, 5.3.1 (Adopted 1989, Revised 2004)

Does the municipality count bedrooms in a different way from Title 5's requirements?

Yes Researcher found no indication that the Wilmington Regulations define a bedroom in a different manner than Title 5. However, the regulations do require minimum flow to be based on a four-bedroom design, unless a deed restriction is filed in the registry limiting the number of bedrooms in the home to fewer than 4.

Town of Wilmington Massachusetts Board of Health Code of Regulations, Sections 5.2, 5.3, 5.3.1 (Adopted 1989, Revised 2004)

Survey received from Wilmington marked the answer as "no" but the researcher left the answer as "yes" due to the 4-bedroom minimum.

Wrentham

What is the requirement for design flow in gallons per bedroom per day? (Title 5: 110)

110 No reference in the Wrentham regulations to a requirement for design flow in gallons per bedroom per day.

What is the minimum flow for single family septic systems? (Title 5: 330 gallons)

330 No reference in the Wrentham regulations to a maximum flow for single family septic systems.

Does the municipality count bedrooms in a different way from Title 5's requirements?

No No reference in the Wrentham regulations to a way of counting bedrooms.