

**TABLE 12.05.03-1: NEW DEVELOPMENT SEWAGE FLOW RATES** (footnotes appear following the end of Table )

(Table B-3 of the *Design Standards for Intermediate-Sized Wastewater Treatment Systems*, 2014 edition as released by the New York State Department of Environmental Conservation March 5, 2014 [see, pages B-16ff at: [http://www.dec.ny.gov/docs/water\\_pdf/2014designstd.pdf](http://www.dec.ny.gov/docs/water_pdf/2014designstd.pdf)] is, in its entirety, applicable to Section 12.05.03 of these regulations. As a convenience, the following chart presents a summary of the most common sources of flow from Table B-3. *In the event that there is any difference or conflict between Table B-3 and this Table 12.05.03-1, however, the provisions of Table B-3 shall be controlling.*)

Source of Flow	Flow Rate to be Added to the POTW <sup>(1)</sup>	Reference
Single-Family Residences and Residential-Style Group Homes	per Bedroom - 110 / 130 / 150 <sup>(2)</sup> gal/day, <u>plus</u> , add 150 gal/day per house with garbage grinder, <u>plus</u> , add 15 gal/day per non-resident employee ( <i>Group Homes only</i> )	<i>Design Standards for Intermediate-Sized Wastewater Treatment Systems</i> , 2014 edition as published by the NYSDEC <sup>(3)</sup>
Apartments, Multiple Dwellings, and Assisted Living Facilities/Complexes	per Bedroom - 110 / 130 / 150 <sup>(2)</sup> gal/day, <u>plus</u> , add 15 gal/day per non-resident employee per shift ( <i>if any</i> ), <u>plus</u> , add 10 gal/day per in-room kitchen ( <i>Assisted Living only</i> )	<i>Design Standards for Intermediate-Sized Wastewater Treatment Systems</i> , 2014 edition as published by the NYSDEC <sup>(3)</sup>
Mobile Home Parks	per “Single-Wide” Home / pad - 220 gal/day, and/or per “Double-Wide” Home / pad - 330 gal/day, <u>plus</u> , add 15 gal/day per non-resident employee per shift ( <i>if any</i> )	<i>Design Standards for Intermediate-Sized Wastewater Treatment Systems</i> , 2014 edition as published by the NYSDEC <sup>(3)</sup>
Hotels, Motels, and Bed & Breakfast Establishments	per Sleeping Unit - 110 / 130 / 150 <sup>(2)</sup> gal/day, <u>plus</u> , add 10 gal/day per in-room kitchen ( <i>if any</i> ), <u>plus</u> , add 20 gal/day per in-room Jacuzzi <sup>®</sup> /spa ( <i>if any</i> ), <u>plus</u> , add 15 gal/day per non-resident employee per shift ( <i>if any</i> ), <u>plus</u> , add for on-site food service, <i>if any (see, Restaurants, below)</i>	<i>Design Standards for Intermediate-Sized Wastewater Treatment Systems</i> , 2014 edition as published by the NYSDEC <sup>(3)</sup>
Hospitals and Nursing Homes	per Bed - 175 gal/day, <u>plus</u> , add 30 gal/day per outpatient or “day habilitation” patient served, <u>plus</u> , add 15 gal/day per employee per shift ( <i>if any</i> ), <u>plus</u> , add for on-site food service, <i>if any (see, Restaurants, below)</i>	<i>Design Standards for Intermediate-Sized Wastewater Treatment Systems</i> , 2014 edition as published by the NYSDEC <sup>(3)</sup>
Day Care	per Child served - 20 gal/day, <u>plus</u> , add 15 gal/day per non-resident employee per shift ( <i>if any</i> ), <u>plus</u> , add for on-site food service, <i>if any (see, Restaurants, below)</i>	<i>Design Standards for Intermediate-Sized Wastewater Treatment Systems</i> , 2014 edition as published by the NYSDEC <sup>(3)</sup>
Kennel and/or Pet Grooming	per Kennel / Run / Cage - 50 gal/day, <u>plus</u> , add 15 gal/day per employee per shift ( <i>if any</i> ), <u>plus</u> , add 500 gal/day per pet grooming station ( <i>if any</i> )	<i>Design Standards for Intermediate-Sized Wastewater Treatment Systems</i> , 2014 edition as published by the NYSDEC <sup>(3)</sup>
Doctor’s, Dentist’s, or Veterinarian’s Offices	per Doctor [ <i>non-Dentist</i> ], or per Dental Care Chair - 250 gal/day, and/or per Veterinarian - 200 gal/day, <u>plus</u> , add 15 gal/day per non-doctor/dentist/vet. employee per shift ( <i>if any</i> )	<i>Design Standards for Intermediate-Sized Wastewater Treatment Systems</i> , 2014 edition as published by the NYSDEC <sup>(3)</sup>
Laundromat	per Washing Machine – 580 gal/day, <u>plus</u> , add 15 gal/day per employee per shift ( <i>if any</i> )	<i>Design Standards for Intermediate-Sized Wastewater Treatment Systems</i> , 2014 edition as published by the NYSDEC <sup>(3)</sup>
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Source of Flow	Flow Rate to be Added to the POTW <sup>(1)</sup>	Reference
Arena, Assembly Hall, Auditorium, Concert Hall, or Theater	per Seat - 5 gal/day, <u>plus</u> , add 15 gal/day per employee per shift, <u>plus</u> , add for on-site food service, <i>if any</i> (see, Restaurants, below)	<i>Design Standards for Intermediate-Sized Wastewater Treatment Systems</i> , 2014 edition as published by the NYSDEC <sup>(3)</sup>
Banquet Hall and/or Catering Hall	per Seat - 10 gal/day, <u>plus</u> , add 15 gal/day per employee per shift, <u>plus</u> , add 150 gal/day per garbage grinder (or, if large, separately evaluate)	<i>Design Standards for Intermediate-Sized Wastewater Treatment Systems</i> , 2014 edition as published by the NYSDEC <sup>(3)</sup>
Office Buildings	per Employee per shift - 15 gal/day, <u>plus</u> , add 5 gal/day per shower unit ( <i>if any</i> ), <u>plus</u> , add for on-site food service, <i>if any</i> (see, Restaurants, below)	<i>Design Standards for Intermediate-Sized Wastewater Treatment Systems</i> , 2014 edition as published by the NYSDEC <sup>(3)</sup>
Discount Stores, Dept. Stores, Grocery Stores, Merchandise Clubs, Retail Stores, and Shopping Centers	per square foot - 0.1 gal/day, <u>plus</u> , add 15 gal/day per employee per shift, <u>plus</u> , add for on-site food service, <i>if any</i> (see, Restaurants, below), <u>plus</u> , add for on-site bakery, butcher, and/or deli, <i>if any</i> , based on similar industry type and size as well as proposed operations	<i>Design Standards for Intermediate-Sized Wastewater Treatment Systems</i> , 2014 edition as published by the NYSDEC <sup>(3)</sup>
Convenience Stores and/or Service Stations	per toilet - 400 gal/day, <u>plus</u> , add 15 gal/day per employee per shift, <u>plus</u> , add for on-site food service, <i>if any</i> (see, Restaurants, below)	<i>Design Standards for Intermediate-Sized Wastewater Treatment Systems</i> , 2014 edition as published by the NYSDEC <sup>(3)</sup>
Factories and/or Distribution Warehouses	per Employee per shift - 15 gal/day, <u>plus</u> , add 10 gal/day per shower unit ( <i>if any</i> ), <u>plus</u> , add for on-site food service, <i>if any</i> (see, Restaurants, below), <u>plus</u> , add for process water use, <i>if any</i> (see, Industrial Facilities, below)	<i>Design Standards for Intermediate-Sized Wastewater Treatment Systems</i> , 2014 edition as published by the NYSDEC <sup>(3)</sup>
<b>Restaurants</b>	<b>Dine-In Cook-to-Order Restaurant</b> (not 24-hour) - 35 gal/day per seat; <b>Fast Food Restaurant</b> (not 24-hour) - 25 gal/day per seat, <u>plus</u> 500 gal/day per drive-up window; <i>if 24-Hour Restaurant</i> - use 50 gal/day per seat <u>instead</u> of number above; <b>Buffet/Cafeteria</b> - pro-rate based on hours of service <i>-versus-</i> 24-Hour Restaurant, <i>above</i> ; <b>Restaurant in Proximity to Freeway Exit</b> - 75 gal/day per seat, <u>plus</u> 500 gal/day per drive-up window; <b>Drive-In Restaurant</b> - 25 gal/day per car space; <b>Tavern/Bar/Lounge</b> - 20 gal/day per seat, <u>plus</u> , for all restaurants, add 15 gal/day per employee per shift, <u>plus</u> , add 150 gal/day per garbage grinder (or, if large, separately evaluate)	<i>Design Standards for Intermediate-Sized Wastewater Treatment Systems</i> , 2014 edition as published by the NYSDEC <sup>(3)</sup>
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Source of Flow	Flow Rate to be Added to the POTW <sup>(1)</sup>	Reference
Industrial Facilities	To be determined at the time of application based on similar industry type and size as well as proposed operations	
Other sources (such as Barber Shops, Beauty Salons, Campgrounds, Churches, Fire Halls, Fitness Centers, Gyms, Health Clubs, Libraries, Parks, Prisons, Recreational Facilities, Schools, Transportation Terminals, etc.)	If listed therein, to be determined at the time of application based on Table B-3 in the <i>Design Standards for Intermediate-Sized Wastewater Treatment Systems</i> , 2014 edition as published by the NYSDEC <sup>(3)</sup> ; <i>see</i> , pages B-16ff of <a href="http://www.dec.ny.gov/docs/water_pdf/2014designstd.pdf">http://www.dec.ny.gov/docs/water_pdf/2014designstd.pdf</a> or, if not listed, to be determined based on similar business type and size	

Footnotes -

- (1) The *Design Standards for Intermediate-Sized Wastewater Treatment Systems*, 2014 edition as published by NYSDEC allow for the following:
- a. “**Typical Per-Unit Hydraulic Loading Rates**” based on Table B-3 (*common sources from which are summarized above*) in the *Design Standards for Intermediate-Sized Wastewater Treatment Systems*, 2014 edition as published by the NYSDEC. For other less frequent sources, refer to full Table B-3 at pages B-16ff of URL: [http://www.dec.ny.gov/docs/water\\_pdf/2014designstd.pdf](http://www.dec.ny.gov/docs/water_pdf/2014designstd.pdf). When a development includes several types of uses from the Table, each use shall be computed separately. Except for the 110/130/150 <sup>(2)</sup> gal/day per unit values, the per-unit hydraulic loading rates, *above* and in Table B-3, may be reduced by 20% if certified water saving plumbing fixtures are used in the development. A combination of low-flow, medium-flow, and high-flow fixtures can also be considered on a *pro-rata* basis when supported with engineering calculations. Expected hydraulic loading rates (flow rates) based on new/alternative technologies will be considered on a case-by-case basis.
  - b. “**Actual Measured Wastewater Flow Data**” for a minimum of one year collected during similar operational conditions. For further information, *see* Method 2 under B.6.b (Design Flow) on pages B-15 to B-16 of the *Design Standards for Intermediate-Sized Wastewater Treatment Systems*, 2014 edition as published by the NYSDEC accessible at URL: [http://www.dec.ny.gov/docs/water\\_pdf/2014designstd.pdf](http://www.dec.ny.gov/docs/water_pdf/2014designstd.pdf).
  - c. “**Actual Measured Water Usage Data**” for a minimum of one year collected during similar operational conditions. For further information, *see* Method 3 under B.6.b (Design Flow) on page B-16 of the *Design Standards for Intermediate-Sized Wastewater Treatment Systems*, 2014 edition as published by the NYSDEC accessible at URL: [http://www.dec.ny.gov/docs/water\\_pdf/2014designstd.pdf](http://www.dec.ny.gov/docs/water_pdf/2014designstd.pdf).
- (2) 110 gpd for post-1994 plumbing code fixtures; 130 gpd for post-1979 through pre-1995 fixtures; and 150 gpd for pre-1980 fixtures. Homes over 1,000 gpd, community systems, or lodging establishments with medium-flow or high-flow fixtures must account for their higher peak flow periods.
- (3) In the event that NYSDEC amends its 2014 edition, the amended edition shall govern prospectively only, with respect to applications submitted on or after the first day of the month which is at least 90 days following the public release of the final version of the amendment.

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