

LANCASTER SEWER DISTRICT COMMISSION

FLOW CALCULATION CHART

The following chart is used to calculate flows that may be required as part of a filing for flow credit issuance or for a change in use permit. The standards contained in this chart are based on flows as determined in 310 CMR 15 - Title 5.

Water meter data shall not be substituted for calculating flow criteria for the establishments listed below. Calculated flow is equivalent to estimated generated flow for the proposed use plus a factor representing flow variations.

Type of Establishment	Flow Element	GPD/Flow Element	Minimum allowable GPD
RESIDENTIAL USES			
Bed & Breakfast	per bedroom	110	440
Bed & Breakfast with restaurant open to public	per bedroom & per seat	110 & 35	1000
Camp, resident, mess hall	per person*	10	
Camp, day, washroom and toilets	per person	10	
Camp, day, mess hall	per person	3	
Campground, showers and toilets	per site	90	
Family Dwelling, Single	per bedroom	110	330
Family Dwelling, Multiple	per bedroom	110	
Family Mobile Home Park	per mobile home	300	
Motel, Hotel, Boarding House	per bedroom	110	
Retirement Mobile Home Park	per site	150	
Housing for the Elderly	per unit	150	
Work or Construction Camp	per person	50	

COMMERCIAL USES			
Amusement Center	per sq.ft.	2	1000
Airport	per passenger	5	150
Barber Shop/Beauty Salon	per chair	100	
Bowling Alley	per alley	100	
Country Club, dining room	per seat	10	
Country Club, snack bar or lunch room	per seat	10	
Country Club, lockers and showers	per locker	20	
Doctor Office	per doctor	250	
Dentist Office	per chair	200	
Factory or Industrial Plant without cafeteria	per person	15	
Factory or Industrial Plant with cafeteria	per person	20	
Gasoline Station	per island	75	300

Type of Establishment	Flow Element	Gallons Per Day	Minimum allowable GPD
COMMERCIAL USES - Continued			
with service bays	per bay	125	
Kennel/Veterinary Office	per kennel	50	
Lounge, Tavern	per seat	20	
Marina	per slip	10	500
Movie Theater	per seat	5	
Non-single family/ automatic clothes washer	per washing machine	400	
Office building	per 1000 sq.ft.	75	200
Retail Store	per 1000 sq.ft.	50	200
Restaurant	per seat	35	1000
Restaurant, thruway service area	per seat	150	1000
Restaurant, Fast Food	per seat	20	1000
Restaurant, kitchen flow [for sizing of grease trap only]	per seat	15	
Service Station [no gas]	per bay	150	450
Skating Rink	per seat	5	3000
Swimming Pool	per person	10	
Tennis Club	per court	250	
Theater, Auditorium	per seat	3	
Trailer, dump station	per trailer	75	

INSTITUTIONAL USES			
Church or Temple	per seat	3	
Correctional Facility	per bed	200	
Function Hall	per seat	15	
Gymnasium	per participant	25	
Gymnasium	per spectator	3	
Hospital	per bed	200	
Nursing Home/Rest Home	per bed	150	
Public Park, toilet waste only	per person	5	
Public Park, bathhouse, showers and flush toilets	per person	10	

SCHOOLS			
Elementary School, without cafeteria, gymnasium or showers	per person	5	
Elementary School, with cafeteria but no gymnasium with showers	per person	8	
Elementary School, with cafeteria, gymnasium and showers	per person	10	

Type of Establishment	Flow Element	Gallons Per Day	Minimum allowable GPD
SCHOOLS - Continued			
Secondary/Middle School, without cafeteria, gymnasium or showers	per person	10	
Secondary/Middle School, with cafeteria but no gymnasium or showers	per person	15	
Secondary/Middle School, with cafeteria, gymnasium and showers	per person	20	
Boarding Schools, Colleges	per person	65	

Flows for facilities other than those listed above shall be established, with approval of the LSDC, in relation to actual meter readings of established flows from known or similar installations. In those instances, Flows shall be based on 200% of average water meter readings in order to assimilate maximum daily flows.

In schools, flows generated from sinks or other drains receiving wastes from science laboratories, graphics arts classrooms, or vocational school activities, including, but not limited to, automotive repair painting, or metal fabrication are classified industrial wastes and shall require an industrial discharge permit from the LSDC and the MWRA