

Manitoba Minimum Expected Volume of Sewage Per Day Typical Wastewater Flow Rates

Typical Wastewater Flow Rate From Commercial Sources

Facility	Unit	Expected Sewage Volume in litres (Imperial gallons) per day
Boarding House	person	150 (33)
Automobile Service Station	vehicle served	45 (10)
	employee	49 (10.8)
Bar	customer	11 (2.4)
	employee	49 (10.8)
Hotel	guest	190 (41.8)
	employee	38 (8.4)
Industrial Building (sanitary waste only)	employee	49 (10.8)
Laundry (self-service)	machine	2100 (462)
	wash	190 (41.8)
Office	employee	49 (10.8)
Public lavatory	user	19 (41.2)
Restaurant (w/toilet)	meal	11 (2.4)
	conventional - customer	34 (7.5)
	short order - customer	23 (5)
	bar/cocktail lounge - customer	11 (2.4)
Theatre	seat	11 (2.4)

Source: USEPA Onsite Wastewater Treatment Systems Manual, 2002

Typical Wastewater Flow Rate From Institutional Sources

Facility	Unit	Expected Sewage Volume in litres (Imperial gallons) per day
Assembly Hall	seat	11(2.4)
Hospital, medical	bed	630 (138.6)
	employee	38 (8.4)
Hospital, mental	bed	380 (83.6)
	employee	38 (8.4)
Rest Home	resident	340 (74.8)
	employee	38 (8.4)
School, day only	w/cafeteria, gym, showers - per student	95 (21)
	w/cafeteria only - per student	57 (12.5)
	w/o cafeteria, gym or showers - per student	42 (9.2)

Source: USEPA Onsite Wastewater Treatment Systems Manual, 2002

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Typical Wastewater Flow Rate From Recreational Sources

Facility	Unit	Expected Sewage Volume in litres (Imperial gallons) per day
Bowling alley	alley	760 (167)
Cabin, resort	person	150 (33)
Cafeteria	customer	8 (1.8)
	employee	38 (8.4)
Camps	pioneer type - person	95 (21)
	children's, w/central toilet/bath - person	170 (37.4)
	day, w/meals - person	57 (12.5)
	day, w/o meals - person	49 (10.8)
	luxury, private bath - person	340 (74.8)
	trailer camp - trailer	470 (103.4)
Campground - developed	person	110 (24.2)
Cocktail lounge	seat	76 (16.7)
Coffee shop	customer	23 (5)
	employee	38 (8.4)
Country club	guest's onsite	380 (83.6)
	employee	49 (10.8)
Dining hall	meal served	26 (5.7)
Fairground	visitor	8 (1.8)
Hotel, resort	person	190 (41.8)
Picnic park, flush toilets	visitor	30 (6.6)
Store, resort	customer	11 (2.4)
	employee	38 (8.4)
Swimming pool	customer	38 (8.4)
	employee	38 (8.4)
Theatre	seat	11 (2.4)
Visitor centre	visitor	19 (4.2)

Source: USEPA Onsite Wastewater Treatment Systems Manual, 2002

Additional Typical Wastewater Flow Rates

Facility	Unit	Expected Sewage Volume in litres (Imperial gallons) per day
Car Wash	hand wash - per car	200 (44)
	truck wash - per truck	400 (88)
Recreational vehicle park	per space	180 (39.6)