

SEWAGE FLOW RATE ESTIMATING GUIDE

(Range and Typical are shown in gallons per unit)

Estimates are based on US standards for water usage and sewage strength.

Typical Wastewater Flow Rates from Commercial Sources

Source	Unit	Range	Typical
Airport	Passenger	2-4	3
Auto Service Station	Vehicle Served	7-13	10
	Employee	9-15	12
Bar	Customer	1-5	3
	Employee	10-16	13
Department Store	Toilet Room	400-600	500
	Employee	7-13	10
Industrial Building	Employee	7-16	13
(Sanitary Waste Only)			
Laundry (Self-Serve)	Machine	450-650	550
	Wash	45-55	50
Office	Employee	7-16	13
Restaurant	Meal	2-4	3
Shopping Center	Employee	7-13	10
	Parking Space	1-2	2

Typical Wastewater Flow Rates from Residential Sources

Source	Unit	Range	Typical
Apartment, High-Rise	Person	35-75	50
Low Rise	Person	50-80	65
Hotel	Guest	30-55	45
Individual Residence			
Typical Home	Person	45-90	70
Better Home	Person	60-100	80
Luxury Home	Person	75-150	95
Older Home	Person	30-60	45
Summer Cottage	Person	25-50	40
Motel			
with Kitchen	Unit	90-180	100
without kitchen	Unit	75-150	95
Mobile Home Park	Person	30-50	40

Typical Wastewater Flow Rates from Institutional Sources

Source	Unit	Range	Typical
Hospital, Medical	Bed	125-240	155
	Employee	5-15	10
Hospital, Mental Health	Bed	75-140	100
	Employee	5-15	10
Correctional Institution (Prison)	Inmate	75-150	115
	Employee	5-15	10
Rest Home	Resident	50-120	85
School, day			
w/ cafeteria, gym, & showers	Student	15-30	25
w/ cafeteria only	Student	10-20	15
no cafeteria; no gym	Student	5-17	11
School, boarding	Student	50-100	75

Typical Wastewater Flow Rates from Recreational Sources

Source	Unit	Range	Typical
Apartment, Resort	Person	50-70	60
Cabin, Resort	Person	8-50	40
Cafeteria	Customer	1-3	2
	Employee	8-12	10
Campground (developed)	Person	20-40	30
Cocktail Lounge	Seat	12-25	20
Coffee Shop	Customer	4-8	6
	Employee	8-12	10
Country Club	Member Present	60-130	100
	Employee	10-15	13
Day Camp (no meals)	Person	10-15	13
Dining Hall	Meal Served	4-10	7
Dormitory	Person	20-50	40
Hotel, Resort	Person	40-60	50
Store, Resort	Customer	1-4	3
	Employee	8-12	10
Swimming Pool	Customer	5-12	10
	Employee	8-12	10
Theatre	Seat	2-4	3
Visitor Center	Visitor	4-8	5