

**Chapter 15. Sewage Loading Criteria
[formerly Chapter 13 Appendix B]**

§1501. General Requirements

A. See Note (a)

Place	Loading	Daily Average Flow Gallons per Day	Daily Average BOD ₅ Pounds per Day	Design Basis
Apartments		250	0.425	one bedroom
		300	0.52	two bedroom
		400	0.68	three bedroom
Assembly	Note (b)	2	0.0034	per seat
Bowling Alleys (no food service)	Note (b)	75	0.13	per lane
Churches	Note (b)	5	0.0088	per sanctuary seat
Churches (with permitted kitchens)	Note (c)	10	0.017	per sanctuary seat
Country Clubs		50	0.085	per member
Dance Halls	Note (b)	2	0.0034	per person
Drive-In Theaters		5	0.0085	per car space
Factories (no showers)		20	0.051	per employee
Factories (with showers)		35	0.06	per employee

Place	Loading	Daily Average Flow Gallons per Day	Daily Average BOD ₅ Pounds per Day	Design Basis
Food Service Operations				
Ordinary Restaurant (not 24 hour)		35	0.12	per seat
24-hour Restaurant		50	0.17	per seat
Banquet Rooms		5	0.017	per seat
Restaurant Along Freeway		100	0.33	per seat
Curb Service (drive-in)		50	0.17	per car space
Bar, Cocktail Lounges, Taverns				
(no food service or very little food service)		25	0.084	per seat
(with regular food service)		35	0.12	per seat
Video Poker Machine		100	0.20	per machine
Fast Food Restaurants		40	0.13	per seat

Place	Loading	Daily Average Flow Gallons per Day	Daily Average BOD ₅ Pounds per Day	Design Basis
Hotel/Motel Food Service		45	0.17	per room
Homes/ Mobile Homes in Subdivisions		400	0.68	per dwelling
Individual Homes/Mobile Homes (where individual sewage technology is utilized. For each additional bedroom add 100 gpd)		250	0.425	one bedroom
		300	0.51	two bedrooms
		400	0.68	three bedrooms

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Hospitals (no resident personnel)	Note (c)	200	0.51	per bed
Institutions (residents)	Note (c)	100	0.25	per person
Municipalities		100	0.17	per person

Place	Loading	Daily Average Flow Gallons per Day	Daily Average BOD ₅ Pounds per Day	Design Basis
Mobile Home Parks up to 5 trailer spaces		400	0.68	per mobile home space
6 trailer spaces or more		300	0.51	per mobile home space
Motels	Note (b)	100	0.12	per unit
Nursing and Rest Homes	Note (c)	100	0.25	per patient
		100	0.17	per resident employee
Office Buildings		20	0.051	per employee
Recreational Vehicle Dumping Stations				Consult OPH
Recreational Vehicle Parks and Camps		125	0.21	per trailer or tent space
Retail Store		20	0.034	per employee
Schools Elementary	Note (c)	15	0.038	per pupil
Schools High and Junior High	Note (c)	20	0.051	per pupil

Place	Loading	Daily Average Flow Gallons per Day	Daily Average BOD ₅ Pounds per Day	Design Basis
Retail Fuel Stations (Located on major highways, etc., and whose primary function is to provide fuel and service to motor vehicles)	Note (d)	250	0.43	per individual vehicle fueling point (up to the first four)
		125	0.21	for each additional individual vehicle fueling point
Shopping Centers (no food service or laundries)		0.2	0.00034	per square foot of floor space
Swimming Pool (including employees)		10	0.017	per swimmer
Showers		20	0.04	per shower

Place	Loading	Daily Average Flow Gallons per Day	Daily Average BOD ₅ Pounds per Day	Design Basis
Vacation Cottages		50	0.12	per person
Youth and Recreation Camps	Note (c)	50	0.12	per person
Washing Machines		400	1.34	per machine

- Note (a) If loading criteria other than presented here are used, they should be justified.
- Note (b) Food Service waste not included.
- Note (c) Food Service waste included but without garbage grinders.
- Note (d) Vehicle fueling points are an arrangement of gasoline or diesel fuel pumps to serve automobiles or other vehicles. For the purposes of these guidelines, a vehicle fueling point is one that serves a vehicle at one time. Food service waste not included.

Note: Design calculations for sewage treatment facilities must be made based on both hydraulic loading(s) and organic loading(s). Final design of facility to be used upon the larger capacity (size) required by these calculations.