

# Wastewater Usage Rate

This table shall be used for estimating the hydraulic loading rates only. Sizing formulas are based on residential strength BOD<sub>5</sub>. Commercial/institutional facilities must pretreat their wastewater to 140 BOD<sub>5</sub> prior to disposal unless secondary treatment quality is required. For design purposes, restaurant wastewater will be assumed to have a BOD<sub>5</sub> of at least 1,200 mg/l after exiting the grease trap or grease interceptor.

Actual water usage data or other methods of calculating wastewater usage rates may be used by the system designer if it is accurate and acceptable to the Texas Commission on Environmental Quality or its authorized agents. If actual water use records are greater than the usage rates in this table, the system shall be designed for the higher flow.

TYPE OF FACILITY	Usage Rate Gallons/Day (without water saving devices)	Usage Rate Gallons/Day (with water saving devices)
Single family dwelling - one or two bedrooms Less than 1,500 square feet.	225	180
Single family dwelling - three bedrooms less than 2,500 square feet.	300	240
Single family dwelling - four bedrooms less than 3,500 square feet.	375	300
Single family dwelling - five bedrooms less than 4,500 square feet.	450	360
Single family dwelling - six bedrooms less than 5,500 square feet.	525	420
Greater than 5,500 square feet each additional 1,500 square feet or increment thereof.	75	60
Condominium or Townhouse - one or two bedrooms	225	180
Condominium or Townhouse each additional bedroom	75	60
Mobile home one or two bedrooms	225	180
Mobile home each additional bedroom	75	60
Country Clubs per member	25	20
Apartment houses per bedroom	125	100
Boarding schools per room capacity	50	40
Day care centers with kitchen per child	25	20
Day care centers without kitchen per child	15	12
Factories per person per shift	15	12
Hospitals per bed	200	160
Hotels and motels per bed	75	60
Nursing homes per bed	100	80
Laundries - self-service per machine	250	200
Lounges - bar and tables per person	10	8
Movie Theaters per seat	5	4
Office buildings - no food or showers per occupant	5	4
Office buildings - with food service per occupant	10	8
Parks with bathhouse per person	15	12
Parks without bathhouse per person	10	8

<b>Restaurants - minimum effluent BOD5 quality described above this table</b> Restaurants per seat	35	28
<b>Restaurants - minimum effluent BOD5 quality described above this table</b> Restaurants - fast food per seat	15	12
<b>Schools with food service &amp; gym</b> per student	25	20
<b>Schools without food service</b> per student	15	12
<b>Service stations</b> per vehicle	10	8
<b>Stores</b> per washroom	200	160
<b>Swimming pool bathhouses</b> per person	10	8
<b>Travel trailer/RV parks</b> per space	50	40
<b>Vet clinics</b> per animal	10	8
<b>Construction sites</b> per worker	50	40
<b>Youth camps</b> per camper	30	24