

THORN CREEK BASIN SANITARY DISTRICT
Guidance for Population Equivalent (P.E.) Calculations

Extension and Commercial/industrial connection permit applicants must provide P.E. calculations with each application for District review and approval. Consult with a civil engineer if calculations are more complex. The District will not perform P.E. calculations for applicants.

One P.E. equals 100 gallons/day, 0.20 lb SS/day, or 0.17 lb BOD/day wastewater discharge, whichever is largest. Typically, 100 gallons/day/P.E. applies to domestic-quality wastewater.

The following wastewater discharge guidance is from *Illinois EPA Part 370 – Recommended Standards for Sewage Works, Appendix B, Table No. 2 - Commonly Used Quantities of Sewage Flows From Miscellaneous Type Facilities.* (Source: Amended at 21 Ill. Reg. 12444, effective August 28, 1997)

Type of Establishment	Gallons Per Person Per Day (Unless otherwise noted)
Airports (per passenger)	5
Bathhouses and swimming pools	10
Camps:	
Campground with central comfort stations	35
With flush toilets, no showers	25
Construction camps (semi-permanent)	50
Day camps (no meals served)	15
Resort camps (night and day) with limited plumbing	50
Luxury camps	100
Cottages and small dwellings with seasonal occupancy	75
Country clubs (per resident member)	100
Country clubs (per non-resident member present)	25
Dwellings: Boarding houses	50
(additional for non-resident boarders)	10
Dwellings: Rooming houses	40
Factories (gallons per person, per shift, exclusive of industrial wastes)	35
Hospitals (per bed space)	250
Hotels with laundry (2 persons per room) per room	150
Institutions other than hospitals including Nursing Homes (per bed)	125
Laundries-self service (gallons per wash)	30
Motels (per bed space) with laundry	50
Picnic parks (toilet wastes only per park user)	5
Picnic parks with bathhouses, showers and flush toilets (per park user)	10
Restaurants (toilet and kitchen wastes per patron)	10
Restaurants (kitchen wastes per meal served)	3
Restaurants (additional for bars and cocktail lounges)	2
Schools:	
Boarding	100
Day, without gyms, cafeterias or shower	15
Day, with gyms, cafeterias and showers	25
Day, with cafeterias, but without gyms or showers	20
Service stations (per vehicle served)	5
Swimming pools and bathhouses	10
Theaters: Movie (per auditorium seat)	5
Drive-in (per car space)	10
Travel trailer parks without individual water and sewer hook-ups (per space)	50
Travel trailer parks with individual water and sewer hook-ups (per space)	100
Workers: Offices, schools and business establishments (per shift)	15