MDE GUIDANCE ON WASTEWATER FLOWS FOR USE IN DESIGNING ON-SITE SYSTEMS

ESTABLISHMENT	GPD PER UNIT
AIRPORT, per passenger Per employee (Add for food service facility)	5 15
ANIMAL SHELTER/KENNELS/VETERINARIAN	
Per run (pen, cage, stall etc.)	25
Per grooming station	250
Per procedure room (Consider Waste handling & strength in design)	250
ASSISTED LIVING/HOMES FOR THE AGED, per bed space (Consider more flow for Assisted Living facilities that provide more exte	100 nsive care)
BARBER SHOP, per seat (station)	50
BEAUTY SALON , per station Consider potential impacts of any chemicals discharged to the onsite syst and the potential impacts of backwash from water treatment units.	250 em
BOWLING ALLEY	
Per lane, no bar/food	75
Per lane, with bar only	125
Per lane, bar & food	200
CAMPS, CAMPGROUNDS, & TRAVEL TRAILER/RV PARKS	
Public Campground, per travel trailer space, w/water and sewer ho	-
Public Campground, per travel trailer space, w/no water & sewer h	_
Youth overnight camp, per camper	50 50
Labor camp, per person Luxury camp, per camper	50 100
Day camp, per eamper Day camp, per person (add flow for meals, showers or pools)	15
For information on the discharge of RV pump-out wastewater into an OS please contact the Groundwater Permits Division at (410) 537-3778.	DS (septic system),
CHURCH-ASSEMBLY HALL	2
Per sanctuary seat With private kitchen (members only)	3 5
With commercial kitchen (open to general public,	S
With Food Service License: see "Food and Beverage Service Facil	ity"

(For church space not in a separate building, allocated to Sunday school and other occasional use, an additional flow factor need not always be applied, as long as seating capacity in these areas does not exceed the number of sanctuary seats.)

DAY CARE, per patron	15
DRIVE IN THEATER, per car space	5
FACTORY (MANUFACTURING PLANT)	15
Per employee/per shift Add for showers per employee	10
FAIRGROUND, per person	5
FOOD and BEVERAGE SERVICE FACILITIES*	
Banquet room, per seat (assoc. w/restaurant)	5
Banquet room, per seat, exclusively banquet facility	25
Bar/Tavern/Pub, per bar seat	25
Bar/Tavern/Pub, per table seat	50
Convenience Store, Bakery, Carryout, Deli, w/ <u>no</u> seating: Without public restrooms	0.40 gpd/ft ² 600 minimum
With public restrooms	0.75 gpd/ft^2
With seats, add flow	Use "Restaurants"
Grocery Store	0.40 gpd/ft^2
Restaurants:12 hour operation, per seat 24 hour operation or fast food, per seat Interstate or major highway, per seat	50 75 150
Tasting Room for Winery or Brewery w/public bathrooms (Add for food service, special events or other amenities)	400 minimum

If wine or beer process wastewater is proposed to be combined with domestic wastewater, or planned for a dedicated onsite system, a Groundwater Discharge Permit may be required. Please contact the Groundwater Permits Division at (410) 537-3778.

^{*} Consider waste strength in design

For any embalming disposal contact the Groundwater Permits Division at (410) 5	537-3778
GOLF COURSE with snack bar (<u>limited</u> food service) Per 18 holes Per 9 holes (Add for full food service and bar seating; See "Food Service Facility")	3500 1500
LAUNDRY/COIN-OPERATED Per machine/per 24 hours If # of machines unknown	600 7.36 gpd/ft ²
MARINAS * Wet slip with toilet facilities (gpd/slip) Wet slip with toilet facilities and bathhouse Dry slips with toilet facilities Dry slips with toilet facilities and bathhouse Launch Ramp only, per parking space	20 32 7 11 10
*Add for other amenities such as food service, laundry service, swimming pool, Pump-out station sizing: 35 gpd per slip, or as dictated by DNR. Storage volume no discharge into OSDS	
MEDICAL FACILITIES Dental office, per chair Doctor's office Hospital, per bed Nursing home, per bed Physical therapy	150 0.62 gpd/ft ² 350 200 0.62 gpd/ft ²
MOBILE HOME PARKS, per lot	300 minimum
MOTEL-HOTEL-BED & BREAKFAST Per unit, no food, no kitchen Per unit, with food/kitchen in room Bed and Breakfast, per Bedroom	125 200 150
OFFICES Per employee/8 hr. shift If # of employees is unknown	15 0.18 gpd/ft^2
PARKS Per person, with toilets provided Add for showers Visitor Center, per parking space	10 10 45

FUNERAL HOME (Domestic wastewater only)

0.62 gpd/ft²

PRISON/JAIL	
Per bed space	125
Per employee/shift	15
RESIDENTIAL UNITS (APARTMENTS/CONDOMINIUMS)	
Per bedroom	150
Rooming/boarding, per bed	75
REST AREA (HIGHWAY)	
State highway rest area (mini-station)	2000 minimum
SCHOOLS & COLLEGES (PER STUDENT)	
Without food or showers	15
Add for food	5
Add for showers	10
Boarding	100
Day care, per student	15
STORE/COMMERCIAL SPACE	0.10 gpd/ft^2
	400 minimum
SWIMMING POOLS	
Per swimmer	10
(add for food service)	
THEATER OR SPORTS ARENA, per seat (add for food service)	5
THEATER-DINNER, per seat	20
WAREHOUSES	0.06 gpd/ft^2

NON-DOMESTIC PROCESS WASTEWATER

If a facility discharges non-domestic process wastewater, the facility may require a Groundwater Discharge Permit. Please contact the Groundwater Permits Division at (410) 537-3778.

For example:

- Vehicle Maintenance facilities
- Car Washing facilities
- Dry Cleaners
- Butcher Shops
- Food processing facilities

[Disposal options for food processing and other nutrient containing wastewater, such as Wineries, Breweries and Milk Products processing facilities, are addressed in a separate MDE memo "Options for the Management of Food Processing Wastewater".]