## H24 Appendix: Wastewater Flow Design Allowances for Unreticulated Wastewater Treatment, Storage and Disposal Systems

Design flows should be calculated from the maximum possible number of persons occupying the premises to be served, and a per capita wastewater flow allowance according to the nature of that occupancy.

TABLE 1: Wastewater Flow Design Allowances in litres/person/day and Design Occupancy Allowances

Design Flow Allowances – Dwellings			
Source	On-site roof water tank supply	Bore, spring or restricted supplementary supply to rain water tank	Unrestricted supply
Households - All waste	180	200	Note (1)
Households – Blackwater <sup>(2)</sup>	50	60	Note (1)
Households – Greywater Greywater-general <sup>(3)</sup> Greywater-heavy <sup>(4)</sup> Greywater-lite <sup>(5)</sup>	130 Note (4) Note (5)	140 Note (4) Note (5)	Note (1)

- (1) Site specific flow rates shall be determined by the designer..
- (2) Source Toilet only
- (3) Source Greywater-general Shower, bath, handbasin, laundry tub, washing machine, kitchen
- (4) Source Greywater-heavy Laundry tub and kitchen. Calculate as 10% to 20% of Greywater-general flow
- (5) Source Greywater-lite Shower, bath and washing machine. Calculate as 80% to 90% of Greywater-general flow

Design Occupancy Allowances – Dwellings		
Number of Bedrooms  1 2 3 4 5	Occupancy for design purposes  2 4 5 6 7	
More than 5 bedrooms within the dwelling	Add 1 for each additional room	
Additional rooms where the room is able to be closed off for privacy such as "games", "family" "recreation", "study", "office", "work" rooms, and which could potentially be used as bedrooms.	Add 1 for each additional room.	
Room or unit ancillary to the main dwelling that is built to habitable standard and has ablution facilities attached.	Apply occupancy allowances for dwellings.	

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Room or unit ancillary to the main dwelling that is built to habitable standard but without ablution facilities attached.	Apply 1 for each additional room			
Design occupancy shall allow for peak occupancy. Holiday homes tend to have intermittent but greater occupancy than a continuously occupied dwelling. Design allowances must allow for the peak occupancy.				
Design Flow and Design Occupancy Allowances Commercial, Accommodation and Institutional Buildings				
Motels/Hotels				
<ul> <li>Guests/resident staff with on site laundry</li> <li>Guests/resident staff with off site laundry</li> <li>Non-resident staff</li> <li>Reception room</li> <li>Bar trade (per customer)</li> <li>Restaurant (per customer)</li> </ul>	180 150 40 30 10 - 20 30			
Guests Customers Staff	Maximum Occupancy/Number of beds Highest daily number over 7 day period - peak season Maximum number of staff			
Restaurants/Bar/Café with restroom facilities				
- dinner - lunch - bar trade - staff	30 25 10 - 20 40			
Café/food premises without restroom facilities				
Customers Staff	15 40			
Customer Staff	Highest daily number over 7 day period - peak season Maximum number of staff			
Магае				
<ul><li>Day users</li><li>Day users and day visitors</li><li>Day plus overnight visitors</li></ul>	15 40 150			
Maximum number of day users, day visitors and overnight visitors. Assumes that day users have no meals provided; day visitors and overnight visitors have lunches and dinners provided				

Maximum number of day users, day visitors and overnight visitors. Assumes that day users have no meals provided; day visitors and overnight visitors have lunches and dinners provided; and that overnight visitors have access to showers but not laundry facilities.

**Community Halls and Churches** 

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Maximum number of staff			
Public Toilets			
With water control features Without water control features	10 - 20 15 - 25		
Highest daily number of users over 7 day period - peak season			
Construction Camps/Holiday Camps/Training Accommodation facilities/Lodging Facilities			
On-site roof water tank supply Bore, spring or restricted supplementary supply Reticulated unrestricted community supply	140 150 150		
Maximum Occupancy/Number of beds			