

Memo

Date: February 4, 2011
To: Cherie
From: Craig
Re: Volume calculation for 37-8433 and 37-8434

I know we spoke about 37-8434 and I originally agreed that we should treat each domestic use in the duplex as we would treat two homes and allow for 0.6 af per home. However, after looking through 37-8433, I am starting to question treating each unit in the duplex and the apartment building as its own separate domestic use. It is actually the 4 unit apartment complex that is pushing me over the edge.

I think Table #7 in the field examiners handbook might be table 3 on page 157 of the scanned version of the Field Examiners handbook (attached). This is where the field examiner supports the volume calculation of 60 gpd per person in an apartment. You can get to this from WENET.

37-8433:

Note that the narrative by the field examiner is the exact same narrative in 37-8434. It references 2 apartments so I assume it was originally meant for 37-8434.

Based on the evidence in the file, the domestic use is internal use only. I think we might want to stick with the field examiners calculation on this:

Using Table 3:

Internal
$$\frac{(4 \text{ apt}) \times (2 \text{ residents per apt}) \times (60 \text{ gpm}) \times (365 \text{ days})}{325850 \text{ gal}} = 0.60 \text{ afa}$$

37-8434:

The field examiners narrative states that the water is diverted to 12 underground sprinklers that irrigate a 1000 sq foot lawn. Even if this is only backup, I don't know if we can say that it was never used for external use since it appears that it is plumbed into the irrigation system.

Internal:
$$\frac{(2 \text{ duplex}) \times (2 \text{ residents per apt}) \times (60 \text{ gpm}) \times (365 \text{ days})}{325850 \text{ gal}} = 0.30 \text{ afa}$$

External: 0.6 af for external lawn use

Total: 0.9 af

Table 3

NON-IRRIGATION WATER REQUIREMENTS

Types of Establishments	<u>Gallons/day</u>
Airports (per passenger)	3-5
Apartments, multiple family (per resident)	60
Bathhouses (per bather)	10
Camps:	
Construction, semi-permanent (per worker)	50
Day with no meals served (per camper)	15
Luxury (per camper)	100-150
Resorts, day & night, limited plumbing (per camper)	50
Tourist, central bath & toilet facilities (per person)	35
Cottages with seasonal occupancy (per resident)	50
Courts, tourist with individual bath units (per person)	50
Clubs:	
Country (per resident member)	100
Country (per non-resident member)	25
Dwellings:	
Boardinghouses (per boarder)	50
Kitchen requirements (per boarder)	10
Multiple family apartments (per resident)	40
Roominghouses (per resident)	60
Single family (per resident)	50-75
Estates (per resident)	100-150
Hotels:	
With private baths (2 persons/room)	60
Without private baths (per person)	50
Hospitals (per bed)	250-400
Institutions other than hospitals (per person)	75-125
Laundries (per washing/customer)	50