

**SIZING WATER SERVICE LINES AND METERS**

**Town of Burlington  
Water Customer Data Sheet**

Customer: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Building Address: \_\_\_\_\_ Map/Lot: \_\_\_\_\_  
 Type of Occupancy: \_\_\_\_\_  
 (Apartment, Hotel, Shopping Center, etc.)

Fixture	Value @ 60 PSI		Number of Fixtures	Total Value
Bathtub	8	x	_____	= _____
Bedpan Washers	10	x	_____	= _____
Bidet	2	x	_____	= _____
Dental Unit	2	x	_____	= _____
Drinking Fountain - Public	2	x	_____	= _____
Kitchen Sink	2.2	x	_____	= _____
Lavatory	1.5	x	_____	= _____
Showerhead (Shower Only)	2.5	x	_____	= _____
Service Sink	4	x	_____	= _____
Toilet – Flush Valve	35	x	_____	= _____
- Tank Type	4	x	_____	= _____
Urinal – Pedestal Flush Valve	35	x	_____	= _____
- Wall Flush Valve	16	x	_____	= _____
Wash Sink (Each Set of Faucets)	4	x	_____	= _____
Dishwasher	2	x	_____	= _____
Washing Machine	6	x	_____	= _____
Hose (50 ft Wash Down) - 1/2 in.	5	x	_____	= _____
- 5/8 in.	9	x	_____	= _____
- 3/4 in.	12	x	_____	= _____
<b>Combined Fixture Value Total</b>				= <input type="text"/>

Water Flow Demand from Fig. 4 -2 or 4 -3: \_\_\_\_\_ Press. Factor from Table 4-1: \_\_\_\_\_

**Customer Peak Demand From** (Fig. 4 -2 or 4 -3) x (Press. Factor Table 4-1) = \_\_\_\_\_ gpm

<b>Add Irrigation</b>	_____ Sections*	x (1.16 or 0.40 )**	= _____ gpm
	_____ Hose Bibs	x Fixture Value x _____ Press. Factor	= _____ gpm

**Added Fixed Load** = \_\_\_\_\_ gpm

**TOTAL FIXED DEMAND** =  gpm

\* 100 ft² area = 1 section

\*\* Spray Systems- Use 1.16; Rotary systems- Use 0.40

**Figure 4-5 Water customer data sheet** Adapted from AWWA Manual M22

## SIZING WATER SERVICE LINES AND METERS

### Instructions for Completing Town of Burlington Water Meter Right-Size Application

1. Determine Estimate Demand using Water Customer Data Sheet
  - Based on Combined Fixture Value Total and Type of Occupancy use either Figure 4-2 or 4-3 to select Water Demand in Gallons Per Minute (gpm).
  - Adjust Water Demand using Pressure Factor from Table 4-1.
  - Calculate Customer Peak Demand. ( Water Demand x Pressure Factor)
  - Calculate Irrigation Demand
  - Add any Fixed Load demands if applicable.
  - Calculate Total Fixed Demand.
2. Applicant to propose Meter Type, Size, and supporting documentation for meter selection adequate for the Calculated demand.
3. For new construction submit Plumbing Permit fixture count as part of the submission.

**Table 4-1 Pressure Adjustment Factors**

Working Pressure at Meter Discharge (psi)	Pressure Adjustment Factor
35	0.74
40	0.80
50	0.90
60	1.00
70	1.09
80	1.17
90	1.25
100	1.34

Adapted from AWWA Manual M22 table 4-1

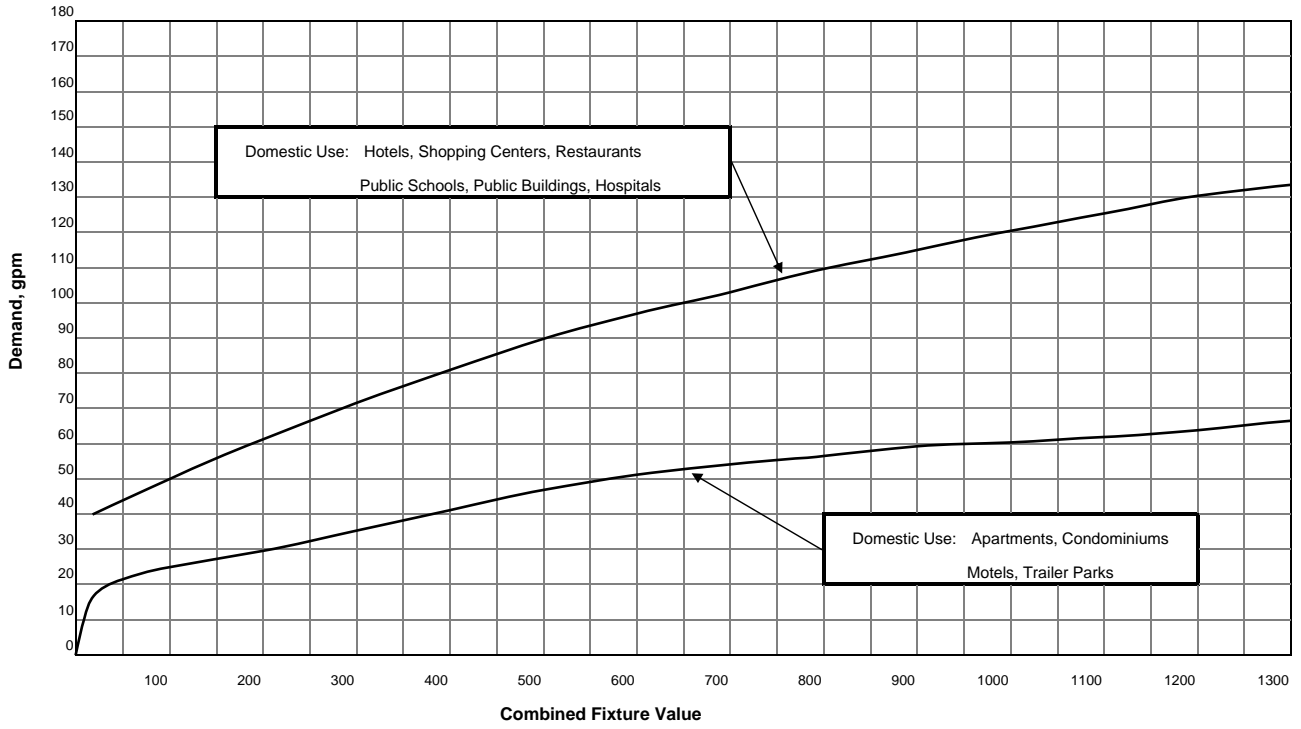


Figure 4-2 Water flow demand per fixture value - low range

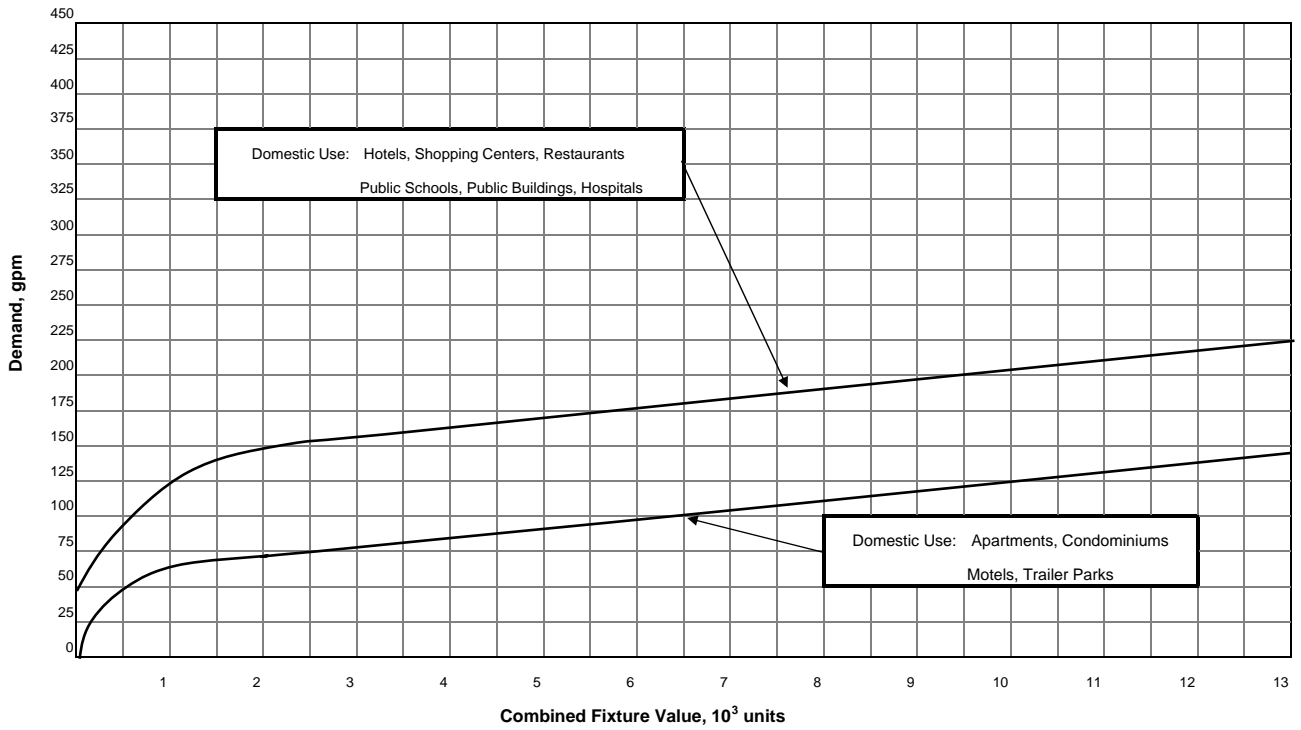


Figure 4-3 Water flow demand per fixture value - High range