Service Address		Type of Occupancy:			Date:
Customer Name:		_ Pho	ne #	Email	
Fixture or Appliance	Fixture Quantity		Fixture Value @ (Refer to AWWA M22, 2 nd Ed	60psi ition, Table 4-2)	TOTAL
Toilet- (Tank)		Х	4	=	
Toilet- (Flush Valve)		Х	35	=	
Urinal- Wall or Stall		х	16	=	
Urinal- Flush Valve		Х	35	=	
Bidet		х	2	=	
Shower (single head)		х	2.5	=	
Faucet – Lavatory Sink		х	1.5	=	
Faucet – Kitchen Sink		х	2.2	=	
Faucet – Utility Sink		х	4	=	
Dishwasher		х	2	=	
Bathtub		х	8	=	
Clothes Washer		Х	6	=	
Hose Bibs (w/ 50 ft. of hose) - 1/2"		х	5	=	
Hose Bibs (w/ 50 ft. of hose) - 5/8"		х	9	=	
Hose Bibs (w/ 50 ft. of hose) - 3/4"		х	12	=	
Bedpan Washer		Х	10	=	
Dental Unit		X	2	=	
Drinking Fountain		х	2	=	
add other miscellaneous fixtures belo		ut fixtur	e value reference source	9)	
Fixture values reference source	<u> </u>	1		<u> </u>	
		Х		=	
		Х		=	
		Х		=	
		Х		=	
		Х		=	
			Combined Fix	xture Value Total	
Customer Peak Demand (from Fig	gure 4-2 or 4-3) (Please	highlight selected poin	nt at figure curve)	gpm
Static Water Pressure at Meter Loc	cationpsi	; Press	sure Adjustment Factor	(from Table 4-1)	(
Adjusted Peak D	Demand (custome	er peal	k demand x Pressure a	djustment factor)	gpm
Irrigation Demand (GPM) occur simultaneously with normal water use					gpm
Other fixed load water demand (0	GPM) for equipme	ent run	ns simultaneously with r	normal water use	gpm
			Total Estimate	d Peak Demand	gpm

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Recommended Meter Size

inches

Figure 4-2: Water-flow demand per fixture value – Low Range Refer to AWWA Manual M22 (2nd Edition)

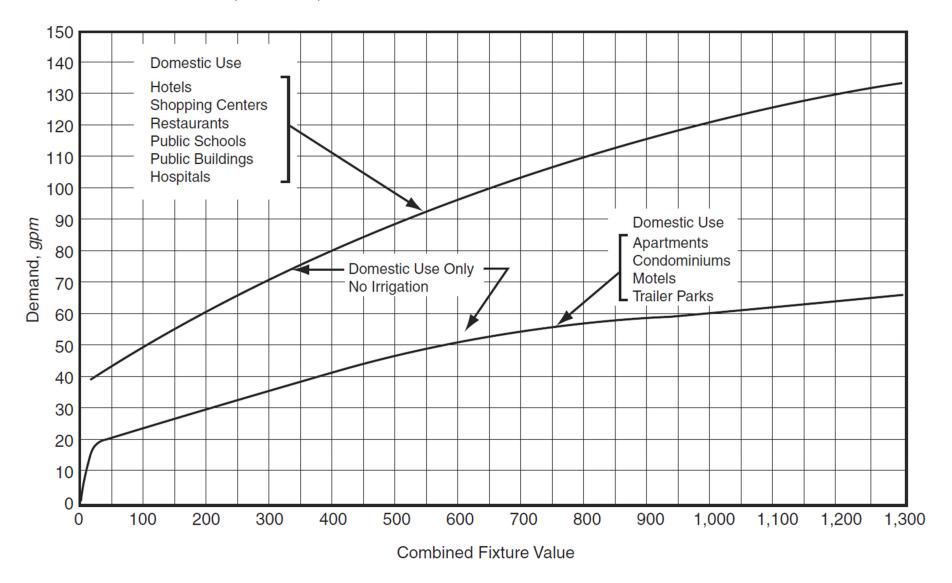
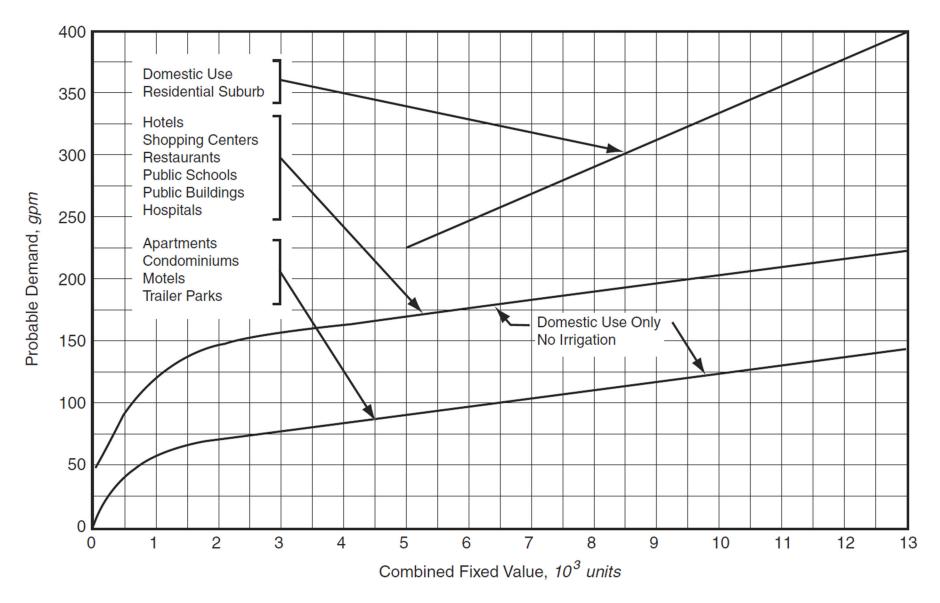


Figure 4-3: Water-flow demand per fixture value – High Range Refer to AWWA Manual M22 (2nd Edition)



(refer to AWWA M22 second edition)

Table 4-1 Pressure adjustment factors*

Working Pressure at Meter Discharge (psi)	Average Flow from 50 ft of $^{5}/8$ -in. Hose and Sprinkler (gpm)	Pressure Adjustment Factor
35	6.7	0.74
40	7.2	0.80
50	8.1	0.90
60	9.0	1.00
70	9.8	1.09
80	10.5	1.17
90	11.2	1.25
100	12.1	1.34

^{*}derived from Table 4-1 and 4-2 of Manual M22 (1975).

Note: To convert psi to kPa: psi \times 6.89476; to convert gpm to m³/hr: gpm \times 0.227.

Table 4-2 Suggested fixture values based on 60 psi (414 kPa)

Fixture or Appliance	$\begin{array}{c} \text{Suggested Fixture Value} \\ gpm \end{array}$
Toilet (tank)	4
Toilet (flush valve)	35
Urinal (wall or stall)	16
Urinal (flush valve)	35
Bidet	2
Shower (single head)	2.5
Faucet (lavatory)	1.5
Faucet (kitchen sink)	2.2
Faucet (utility sink)	4
Dishwasher	2
Bathtub	8
Clothes washer	6
Hose connections (with 50 ft of hose)	
¹ /2 in. (13 mm)	5
⁵ /8 in. (16 mm)	9
³ /4 in. (19 mm)	12
Miscellaneous	
Bedpan washers	10
Drinking fountains	2
Dental units	2

Note: To convert gpm to m^3/hr : $gpm \times 0.227$.

VAW Recommended Meter Size Selection Table

Total Estimated Peak Demand (GPM)	Minimum Meter Size (refer to AWWA M22 2nd Edition Table 6-1)	Minimum service line size (from Street main to meter yoke)	
0-20	5/8" (outside 18" round meter pit)	3/4" copper pipe	
21-30	3/4" (outside 18" round meter pit)	1" copper pipe	
31-50	1" (outside 18" or 24" round meter pit)	1" copper pipe	
51-100	1.5" (outside 36" round meter pit)	2" copper pipe	
101-160	2" (outside 36" round meter pit)	2" copper pipe	
161-360	Duplex-2" (outside 36" round meter pit)	4" ductile iron pipe	
361-600	4" (inside meter setting see next page)	4" ductile iron pipe	

