

Philo Ridge Farm - Sheep Barn Well Charlotte, Vermont

Fixture Unit Calculation per AWWA M22 2nd Edition

Customer Philo Ridge Farm
Building Address 2766 Mt. Philo Road
Town Charlotte
Type of Occupancy Food Prep/Market

Fixture	Fixture Value (60 psi)		No. of Fixtures	Total Fixture Value
Kitchen Sink	2.2	x	13	= 28.6
Lavatory	1.5	x	4	= 6
Utility Sink	4	x	1	= 4
Urinal (wall)	7	x	0	= 0
Urinal (flush valve)	35	x	0	= 0
Toilet (tank)	4	x	4	= 16
Toilet (flush valve)	35	x	0	= 0
Hose (50 ft. Wash Down) - 1/2"	5	x	2	= 10
Hose (50 ft. Wash Down) - 5/8"	9	x	0	= 0
Hose (50 ft. Wash Down) - 3/4"	12	x	=	0
Sum				64.6
Customer Peak Demand (gpm) from Fig. 4.2				46
Pressure Factor* 40 psi				0.80
Adjusted Peak Demand				37
Irrigation - None				0
Total Peak Demand (gpm)				37

*Extrapolated using best fit curve of data from Table 4.1

Prepared By Civil Engineering Associates, Inc.
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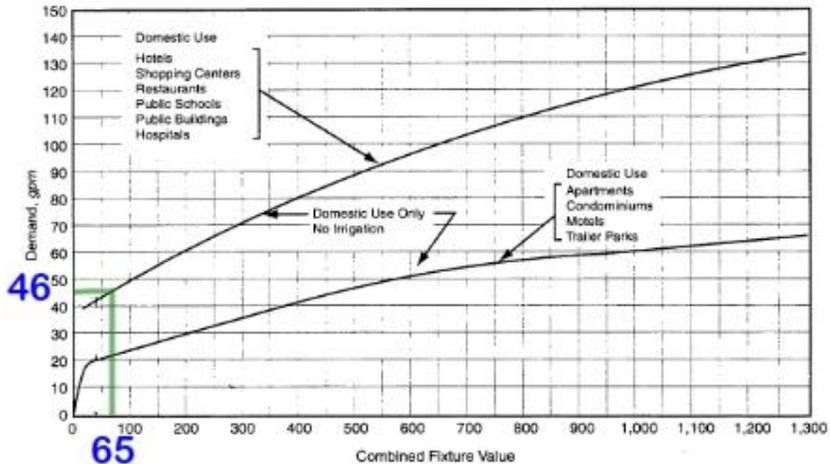


Figure 4-2 Water flow demand per fixture value—low range

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).