

**TABLE 8.3 Estimation of Probable Demand for Water****(a) For building occupancies other than residential, light commercial, motel, and similar services, and for sizing individual risers of multiriser water distribution system**

For Predominantly Flush Tanks		For Predominantly Flush Valves		For Either Tank or Valve Systems	
wsfu	Demand, GPM	wsfu	Demand, GPM	wsfu	Demand, GPM
1-6	5			1,000	208
10	8	10	27	1,250	240
15	11	15	31	1,500	270
20	14	20	35	1,750	300
25	17	25	38	2,000	320
30	20	30	41	2,250	350
40	25	40	47	2,500	375
50	29	50	52	2,750	400
80	38	80	62	3,000	430
100	44	100	68	4,000	525
160	57	160	83	5,000	600
200	65	200	92	6,000	645
250	75	250	101	7,000	685
300	85	300	110	8,000	720
400	105	400	126	9,000	745
500	125	500	142	10,000	770
750	170	750	178		

**(b) For residential, light commercial, motel, and similar services**

For Predominantly Flush Tanks		For Predominantly Flushometer		For Either Tank or Flushometer Systems <sup>a</sup>	
wsfu	Demand, GPM	wsfu	Demand, GPM	wsfu	Demand, GPM
up to 6	8	up to 6	30	1,000	126
10	12	10	35	1,250	152
15	13	15	40	1,500	175
20	13	20	44	1,750	200
25	14	25	48	2,000	220
30	15	30	50	2,250	240
40	16	40	55	2,500	260
50	17	50	59	2,750	282
80	21	80	68	3,000	300
100	24	100	72	4,000	352
150	31	150	79	5,000	395
200	35	200	85	6,000	425
250	42	250	91	7,000	445
300	48	300	96	8,000	456
400	60	400	102	9,000	461
500	71	500	107	10,000	462
750	100	750	118		

<sup>a</sup>For large public assemblies, such as a concert hall, sports arena, or stadium, the demand for water would be greater, owing to the pattern of use of the facilities. In such applications, Table 8.3(a) should be used.