

**DIVERSITY FACTOR ANALYSIS
 BASED ON JDM PROPOSED CITY AND CITY LEASED CAPACITY FACTORS**

Description	Avg Day Demand	Max Day Demand	Max Hour Demand
System Demands (Mcf/Day)			
Retail Demand Excluding Fire Protection (a)	16,770	33,030	55,060
Wholesale (Aqua PA)	300	555	660
PWD Facilities	822	1,315	2,630
Subtotal Metered Demand	17,892	34,900	58,350
Estimated Losses Based on 38.5% System Non-Revenue Water	11,201	14,561	19,489
Estimated Total System Non-Coincidental Demand	29,093	48,321	74,919
System Non Coincidental Demand Peaking Factor		1.66	2.58
System Coincidental Demand Peaking Factor		1.30	1.74
Diversity Factor (1.10 - 1.40)		1.28	1.48

**WATER: ESTIMATED RETAIL UNITS OF SERVICE
BASED ON JDM PROPOSED CITY AND CITY LEASED CAPACITY FACTORS
TEST YEAR 2017**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
Line No.	Customer Class	Total	Average	Maximum Day Extra Capacity			Maximum Hour Extra Capacity		
		Test Year	Daily	Capacity	Total	Extra	Capacity	Total	Extra
		Water Use	Water Use	Factor	Capacity	Capacity (a)	Factor	Capacity	Capacity (b)
		Mcf	Mcf/day	%	Mcf/day	Mcf/day	%	Mcf/day	Mcf/day
		Ref. A	(1) / 365		(2) x (3) / 100	(4) - (2)		(2) x (6) / 100	(7) - (4)
1	Residential	3,169,700	8,680	200	17,360	8,680	360	31,250	13,890
2	Senior Citizens	111,700	310	200	620	310	360	1,120	500
3	Commercial	1,264,700	3,460	180	6,230	2,770	270	9,340	3,110
4	Industrial	91,200	250	160	400	150	200	500	100
5	Public Utilities	9,700	30	160	50	20	200	60	10
6	Total General Service	4,647,000	12,730		24,660	11,930		42,270	17,610
7	Housing Authority	171,000	470	190	890	420	315	1,480	590
8	Charities & Schools	199,700	550	180	990	440	270	1,490	500
9	Hospital/University	291,200	800	180	1,440	640	235	1,880	440
11	Hand Billed	567,000	1,550	180	2,790	1,240	270	4,190	1,400
12	Scheduled (Flat Rate)	0	0	200	0	0	360	0	0
13	City Leased Properties	8,600	20	348	70	50	578	120	50
14	City	237,500	650	337	2,190	1,540	559	3,630	1,440
	Fire Protection								
15	Public		0		920	920		2,390	1,470
16	Private	11,100	30		220	190		530	310
17	Total Retail Customers	6,133,100	16,800		34,170	17,370		57,980	23,810

(a) Capacity in excess of average daily use.

(b) Capacity in excess of maximum day.

Mcf - thousand cubic feet