

Location Number: _____

Account Number: _____

Permit Number: _____



Pagosa Area Water and Sanitation District
 100 Lyn Ave. / Pagosa Springs, CO 81147
 PHONE: (970) 731-2691

2023 COMMERCIAL WATER METER SIZING WORKSHEET

Date: _____
 Name of Property Owner: _____
 Name of Contact Person: _____
 Name of Business (if applicable): _____

Property Location
 Street Address: _____
 Subdivision: _____

Block: _____ Lot: _____

EACH Type of Fixture	Number of Fixtures in Bldg 1	+	Number of Fixtures in Bldg 2	+	Number of Fixtures in Bldg 3	=	Total Fixtures	x	*Fixture Unit Multiplier		=	Total Fixture Unit Value
Bathub / shower or Combo		+		+		=		x	4.0		=	
Bathroom sink, each set of faucets		+		+		=		x	2.0		=	
Toilet		+		+		=		x	5.0		=	
Urinal		+		+		=		x	3.0		=	
Washing Machine (8 lb)		+		+		=		x	3.0		=	
Washing Machine (15 lb)		+		+		=		x	4.0		=	
Dental unit, cuspidor **		+		+		=		x	1.0		=	
Clinic Sink**		+		+		=		x	3.0		=	
Bar / Hand Sink**		+		+		=		x	2.0		=	
Drinking Fountain		+		+		=		x	0.25		=	
Kitchen sink, hotel or restaurant		+		+		=		x	4.0		=	
Kitchen sink, domestic		+		+		=		x	1.4		=	
Dishwasher, domestic		+		+		=		x	1.4		=	
Laundry Sink**		+		+		=		x	1.5		=	
Service or Mop Basin**		+		+		=		x	3.0		=	
Hose bibb - FIRST**		+		+		=		x	2.5		=	
Hose bibb, EACH ADDITIONAL **		+		+		=		x	1.0		=	
Lawn sprinkler, each full head**		+		+		=		x	1.0		=	
Other (Describe)		+		+		=		x			=	
Other (Describe)		+		+		=		x			=	

* Based on 2015 International Plumbing Code & **2006 Universal Plumbing Code **FUY Subtotal :** _____

See Table E103.3(3)

Fixture Description: _____ GPM: _____ Number: _____ Calculated Fixture Units: _____
 Fixture Description: _____ GPM: _____ Number: _____ Calculated Fixture Units: _____
 Fixture Description: _____ GPM: _____ Number: _____ Calculated Fixture Units: _____

FUY Total: _____

I affirm that the information given is correct. I acknowledge that the approval given for minimum meter size and maximum water capacity is based solely on the information provided above, and such determination is at the discretion of the Pagosa Area Water and Sanitation District. Any deviation under construction will require resubmission of corrected data for determination of adequacy of meter size.

Signature (Design Engineer) _____ **Date Signed** _____
Signature (Owner/Agent) _____ **Date Signed** _____

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Instructions for completion of the PAWSD Commercial & Multi-Dwelling Water Meter Sizing Worksheet

Matrix to Determine Meter Size and Water Demand

Complete the columns of the matrix by supplying the quantity and type of fixtures. Accuracy of the fixture count is necessary to determine the appropriate meter size and Equivalent Units.

Commercial Use

Applies to business, commercial, industrial, and assembly occupancies. Included are the public and common areas in hotels, restaurants, schools, churches, etc.

Multi-Dwelling Use

May apply to duplex, apartments, condos, townhomes, etc.

Other Water Requirements

There are some process water demands that are not listed, such as car washes. Each of these will be assigned a fixture unit count based upon its GPM demand. Make sure this information is provided.

Lawn Sprinkler Heads

Add all 1/4, 1/2, 3/4, and full irrigation heads to determine the total number of full sprinkler heads. For example, two 1/4 heads and one 1/2 head will equal one full head.

GPM (Gallons per Minute)

When any water requirement is listed by GPM demand, fixture unit count will be determined by using the 2015 International Plumbing Code Table E103.3(3) - Table For Estimating Demand.

2023 COMMERCIAL ACCOUNTS

This section to be completed by PAWSD staff.

Required Service Size and Equivalent Units Chart

Fixture Unit Count	Meter Size	* # Equivalent Units	** GPM
0-30	1"	1	50
30.5-52	1"	1.5	50
52.5-127	1"	2.5	50
128-375	1.5"	5	100
376-700	2"	8	180
701-1950	3"	16	320
1951-3700	4"	25	500
3,701-8,200	6"	50	1,000

Fixture Count Total (from pg.1): _____

Corresponding Meter Size: _____

Acct Current Meter Size: _____

Corresponding EU: _____

Acct Current EU: _____

Meter size/EU ratio determined by hydraulic capacity ratio of meter size as set forth by AWWA Manual M-6.

**With approximate flow of 60 psi at meter

Prepared By: _____

Date: _____

PLEASE NOTE: FEE SCHEDULES ARE SUBJECT TO CHANGE

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Appendix E

Table E103.3(3)

Table for Estimating Demand

Supply Systems Predominantly for Flush Tanks

Gal per Minute	Water Supply Fixture Units	Cubic ft per Minutes
3.0	1	0.041040
5.0	2	0.06840
6.5	3	0.86892
8.0	4	1.06944
9.4	5	1.26592
10.7	6	1.4303760
11.8	7	1.577424
12.8	8	1.711104
13.7	9	1.831416
14.6	10	1.951728
15.4	11	2.058672
16.0	12	2.138880
16.5	13	2.205720
17.0	14	2.272560
17.5	15	2.339400
18.0	16	2.906240
18.4	17	2.459712
18.8	18	2.513184
19.2	19	2.566656
19.6	20	2.620128
21.5	25	2.874120
23.3	30	3.114744
24.9	35	3.328632
26.3	40	3.515784
27.7	45	3.702936
29.1	50	3.890088

Gal per Minute	Water Supply Fixture Units	Cubic ft per Minutes
32.0	60	4.277760
35.0	70	4.678800
38.0	80	5.079840
41.0	90	5.480880
43.5	100	5.815080
48.0	120	6.416640
52.5	140	7.018200
57.0	160	7.619760
61.0	180	8.154480
65.0	200	8.689200
70.0	225	9.357600
75.0	250	10.02600
80.0	275	10.69440
85.0	300	11.362800
105.0	400	14.03640
124.0	500	16.57632
170.0	750	22.72560
208.0	1,000	27.80544
239.0	1,250	31.94952
269.0	1,500	35.95992
297.0	1,750	39.70296
325.0	2,000	43.44600
380.0	2,500	50.79840
433.0	3,000	57.88344
525.0	4,000	70.18200
593.0	5,000	79.27224