

Mixed-Use Meter and Water Budget Log

Site Name: _____

Irvine Ranch Water District

Meter Number: _____

www.irwd.com

Weather Station Zone: _____

ET Hotline: 949-453-5451 (English)

Water Use Type: _____ Acreage _____
(Recycled or Potable)

949-453-5452 (Spanish)

Today's Date	Today's Meter Reading	Minus	Previous Meter Reading	Equals	Water Usage	Budget Per Acre	Times	Site Acreage	Equals	Outdoor Budget	Plus	Indoor Budget	Equals	Site Budget	Over/ Under
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	

*If uncertain about climate zone, call IRWD Customer Service at **949-453-5300**.

Mixed-Use Meter and Water Budget Log Example

Site Name: Horizon Haven Residences, LP

Irvine Ranch Water District

Meter Number: 12345678

www.irwd.com

Weather Station Zone: Central

ET Hotline: 949-453-5451 (English)

Water Use Type: Potable Acreage 0.78
(Recycled or Potable)

949-453-5452 (Spanish)

ET Weather
Center Data:
Weekly Budget

Water Usage - Site Budget = Over/Under

Today's Date	Today's Meter Reading	Minus	Previous Meter Reading	=	Water Usage	Budget Per Acre	Times	Site Acreage	=	Outdoor Budget	Plus	Indoor Budget	=	Site Budget	Over/Under
8/2/21	4211	-		=	CCF	CCF	x		=		+		=	CCF	
8/9/21	4252	-	4211	=	41 CCF	47.37 CCF	x	0.78	=	36.95	+	10	=	46.95 CCF	-5.95 OK
8/16/21	4291	-	4252	=	39 CCF	44.53 CCF	x	0.78	=	34.73	+	10	=	44.73 CCF	-5.73 OK
8/23/21	4331	-	4291	=	40 CCF	31.27 CCF	x	0.78	=	24.39	+	10	=	34.39 CCF	5.61 OVER
8/30/21	4382	-	4331	=	51 CCF	43.90 CCF	x	0.78	=	34.24	+	10	=	44.24 CCF	6.76 OVER
9/6/21	4424	-	4382	=	42 CCF	36.00 CCF	x	0.78	=	28.08	+	10	=	38.08 CCF	3.92 OVER
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	
		-		=	CCF	CCF	x		=		+		=	CCF	

*If uncertain about climate zone, call IRWD Customer Service at 949-453-5300.

Using the Mixed-Use Meter and Water Budget Log

The purpose of the Mixed-Use Meter and Water Budget Log is to compare your water usage with the IRWD's Budget. Only by monitoring your usage and making changes in response to changes in ET (evapotranspiration) can you reliably avoid being assessed penalties.

- ❖ Budgets are MORE water than is needed.
- ❖ Your usage should **always** be **below** your budget.

How to use the log sheet

The day you read the meter is not as important as reading the meter on the same day from week to week.

1. Read the white numbers on the meter. The white numbers of the meter are in CCFs (hundred cubic feet). Note the date in "Today's Date" column and the meter reading in "Today's Meter Reading" column.
2. Wait a week and read the meter again. As before, note today's date and the meter read in the same columns. Write down the first meter reading in the "Previous Meter Reading" column. Subtract to get the usage.
3. Call the ET hotline at **949-453-5451 Eng. Or 949-453-5452 Sp.** to get the budget per acre for your climate zone. Write that number in the "Budget Per CCF" column. If you are not certain which climate zone this meter is in, call IRWD customer service at **949-453-5300**.
4. Write in the acreage for this meter in the "Site Acreage" column. This number is on the water bill.
5. Multiply the Budget Per Acre number with your acreage to get the budget for this meter for this week. Write that in the "Outdoor Budget" column.
6. Add in the Indoor Budget (call IRWD if you do not know it for this site).
7. Add the Outdoor and Indoor Budgets and write the total under Site Budget
8. Subtract "Site Budget" from the "Water Usage". Write it in "Over/Under." If the number is positive, you used more than you were budgeted. You have a problem, such as a leak or over-watering.

IRWD updates the ET hotline each Monday. Weekly ET updates are posted on IRWD's web site at www.irwd.com. If you have any questions or concerns regarding water usage on your site, please call IRWD at **949-453-5581**.

Reading the Meter

Meters measure water used in Cubic Feet (CFs), but budgets are based on Hundred Cubic Feet (CCFs*). To use this Meter and Budget Log, you need to read only the CCFs which are the white numbers on the odometer portion of the dial. In this example, the meter shows 0573.01 CCFs. You need only record the 573 CCFs.

*Why isn't this "HCFs"? Because C is the Roman numeral for one hundred.

Scheduling

Changes in scheduling will need to be done more frequently during certain periods of the year, particularly in spring and fall. In September, ET drops by approximately 30% even if the temperature is hotter, because the days are shorter and the sun is at a less intense angle. This rapid drop will continue in October and November.

IRWD strongly recommends changing the irrigation schedule at least weekly during this period.

Conversely, ET increases by approximately 40% in April, but gradually less rapid during May, June, and July. IRWD recommends taking extra care to adequately irrigate during this period to ensure that plants develop a healthy root structure in this growing season.

How Budgets Work

Budgets are determined by the square feet of irrigated landscape and ET for exactly those days that occurred during the billing period. Because ET changes daily, the budget will change on every bill. Budgets have several "buffers" built-in, so your usage should always be below your budget. For example, IRWD assumes that all recycled water landscape accounts are 100 percent warm season turf located in 100 percent sun. There is also an "inefficiency" factor built into the formula because we do not expect you to change the controllers daily nor have a perfect irrigation system. If you believe you have more acreage than is listed, submit a Landscape Adjustment Request Form with the correct acreage in square feet.

Calculating ET

ET changes almost every day. The ET rate is collected from 3 weather stations, covering these climate zones: **Coastal** (covering Newport Coast), **Central** (covering the City of Irvine, Tustin Ranch, and UCI), and **Foothill** (covering Foothill Ranch and Portola Hills). Each meter is assigned to one of these stations. Each station monitors solar radiation, air temperature, wind, humidity, and other factors 24 hours a day, 7 days a week. Your Budget increases and decreases in response to all weather factors.

