Meter and Allocation Log

Irvine Ranch Water District
ET Hotline: 949-453-5451

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

Using the Meter and Allocation Log

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

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

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 to get the allocation per acre for your climate zone. Write that number in the "Alloc. Per CCF" column. If you are not certain which climate zone this meter is in, call IRWD.
4. Write in the acreage for this meter in the "Site Acreage" column. This number is on the water bill.
5. Multiply the Alloc Per Acre number with your acreage to get the allocation for this meter for this week. Write that in the "Outdoor Alloc." column.
6. Add in the Indoor Alloc (call IRWD if you do not know it for this site.
7. Add the Outdoor and Indoor Allocations and write the total under Site Alloc.
8. From the Site Alloc, subtract Water Usage. Write it in "Over/Under." If the number is less than zero, you used more than you were allocated. You have a problem, such as a leak or over- watering.

The ET hotline (949-453-5451) is updated once each week (usually Monday). The daily ET can be accessed via IRWD's web site at www.irwd.com. If you have any questions re a problem on your site, please call IRWD at 949-453-5324.

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, less rapidly in June and July. IRWD recommends taking extra care to adequately irrigate during this period to ensure that plants develop a healthy root base in this growth season.

Allocations

Allocations 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 allocation will change on every bill. Allocations have several "buffers" built in, so your usage should **always be below** your allocation. For example, IRWD assumes that the landscape is 100% turf in 100% 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 air temperature, wind, humidity, and other factors 24 hours a day, 7 days a week. Your allocation increases and decreases in response to all weather factors.

IRWD's rates for landscape	Potable Water	Reclaimed Water
Low Volume – the first 40% of the allocation	.48	.44
Conservation – the next 60% of the allocation	.64	.58
Inefficient – the first 10% over the allocation	1.28	1.16
Excessive – 11-20% over the allocation	2.56	2.32
Wasteful – all water over 20% of the allocation	5.12	4.64

Reading the Meter

Meters measure water used in Cubic Feet (CFs), but allocations are based on Hundred Cubic Feet (CCFs*). To use this Meter and Allocation 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 5907.62 CFs. You need only record the 5907 CCFs.

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