

## How do I measure my roof area?

You need to know your roof area in order to calculate your minimum rain harvest volume, which is what the program uses to calculate your rebate dollar amount. We recommend using Google Earth to calculate the area. You may find it helpful to sketch out your house as you take measurements. **Note that you can use this method to measure other areas on your property, such as a landscaping area or another impervious area that you want to capture rainwater from. Measurements can be an estimate.**

**1 Go to [Google.com/earth](https://www.google.com/earth).**

**2 Find your property.**

Click on the search icon and enter your home address.

**3 See your house from a bird's eye view.**

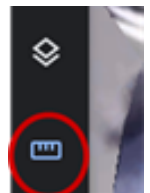
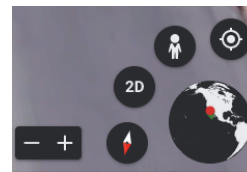
Click on the 2D on the bottom right to remove 3D view. You can zoom using the scroll wheel or your mouse, pan to your house using the left click, and rotate the view by holding down the scroll wheel and clicking left. Zoom and pan the screen so that you can see your house from above.

**4 Find the measurement tool.**

Click on the ruler tool and put the units in feet.

**5 Measure your roof area.**

Center your cursors on a corner of your roof and click. Move to the next corner and click. You will see a yellow line connecting the corners. Keep clicking and outlining until you have outlined the part of your roof that drains to your downspout. Make sure you click on the corners in order. If you want to readjust the outline, hover over the section you want to adjust. Your cursor will change to become a hand and you can left click and drag the line where you want it. The box to the right of the screen will show you the perimeter and area of your selected roof area (make sure the units are in square feet). If you are implementing different rain-saving projects (such as a rain garden on one side of your house and containers on the other side), you may have to do this multiple times for each area.



Perimeter ⓘ  
159 ft ▾

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Area  
1,534 ft<sup>2</sup> ▾

**6 Write down your calculations in your application.**

# What is a minimum rain harvest volume?

Your rain harvest volume is the amount of water in gallons that falls onto your roof (or other impervious area that you are capturing rainwater from) during a storm. To qualify for the rebate, you must capture all of your minimum rain harvest volume either in a container or in your landscape. The minimum rain harvest volume is the one produced during a typical San Diego storm.

## What is my required rain harvest volume?

You will need to know the area in square feet of your roof or the impervious area you are capturing rainwater from. Use this formula:

$$\text{Area (Sqft)} \quad \underline{\hspace{2cm}} \quad * 0.0625 \text{ ft} * 7.48 \text{ gallon/ft}^3 = \underline{\hspace{2cm}} \text{ gallons}$$

## How to size your landscape feature

### Rain garden size in square feet

		Size of Roof or Other Impervious Area (Square Feet)									
		300	500	700	800	1000	1200	1500	1750	2000	2500
Soil Media Depth in feet	0.5	30	50	70	80	100	120	150	175	200	250
	1	25	42	58	67	84	100	125	146	167	208
	1.5	22	36	50	57	72	86	107	125	143	179
	2	19	31	44	50	63	75	94	110	125	156
	2.5	17	28	39	45	56	67	84	97	111	139
	3	15	25	35	40	50	60	75	88	100	125
		<b>140</b>	<b>234</b>	<b>327</b>	<b>374</b>	<b>468</b>	<b>561</b>	<b>701</b>	<b>818</b>	<b>935</b>	<b>1169</b>
<b>Number of Gallons Stored in Rain Garden</b>											

### Rock garden size in square feet

		Size of Roof or Other Impervious Area (Square Feet)									
		300	500	700	800	1000	1200	1500	1750	2000	2500
Rock Depth in feet	0.5	29	47	66	75	94	113	141	165	188	235
	1	23	38	53	60	75	90	113	132	151	188
	1.5	19	32	44	50	63	75	94	110	126	157
	2	16	27	38	43	54	65	81	94	108	135
	2.5	15	24	33	38	47	57	71	83	94	118
	3	13	21	29	34	42	50	63	74	84	105
		<b>140</b>	<b>234</b>	<b>327</b>	<b>374</b>	<b>468</b>	<b>561</b>	<b>701</b>	<b>818</b>	<b>935</b>	<b>1169</b>
<b>Number of Gallons Stored in Rock Garden</b>											

**Example**  
If you are capturing rainwater from a 1,000 sqft roof, you will need to capture 468 gallons.

If you have a space that is 94 sqft, you can build a rock garden that is 0.5 ft deep, or a rain garden that is 1 ft deep (not counting a ponding area). If you have less space, you can capture the same amount of water if the garden is deeper.

If your roof and available area do not fit in this table, program staff will help you calculate exact measurements.

Depth of soil or rocks does not include 0.5 feet that should be left empty for water to pond.