



Rain Barrels

Why a rain barrel?

- Widespread use of rain barrels reduces the amount of rainwater reaching the ground in a particular area and draining into streams and storm drains, and hence reduces erosion, sedimentation and pollution, and prevents storm water drainage systems being overwhelmed.
- Rain barrels additionally provide free, soft water for use in watering plants which reduces the strain on municipal water systems.
- Rainwater is not potable due to the potential presence of contaminants from roofing materials.

How much water could we save?

If 20,000 homes in Palm Coast harvested and reused 500 gallons of rainwater from every two inches of rainfall (average 50 inches per year), it would equate to 250,000,000 gallons of water per year that would not be pumped from Florida's aquifers and would not have to be disposed of in the city's stormwater system.

Where can I get one for myself?

Buy one already made!

\$100 to \$250 each



CHECK WITH LOCAL CODE ENFORCEMENT AND ZONING FOR INSTALLATION LIMITATIONS.

Or make your own!
... \$40 - \$60 each



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Acceptable



Not acceptable



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Making a rain barrel is so simple ...



...even a child can do it!

How much does it cost to make a rainbarrel?

BASIC PARTS REQUIRED

PART #	QTY	DESCRIPTION	UNIT PRICE	Suppliers
U100	1	Uniseals, 1" pipe size, 1.31" pipe o.d., 1 3/4" holesaw size	2.55	A
U150	1	Uniseals, 1 1/2" pipe size, 1.90" pipe o.d., 2 1/2" holesaw size	3.30	A
DV34	1	Drum Faucet	1.90	A
438131	1	PVC Reducer Bushing, 1" x 3/4"	1.01	B
	1	PVC Street Ell, 1 1/2"	3.59	B
	1	Nylon screening, 14" diameter	0.99	B
	1	Food Grade, UV resistant, 50 to 60 gallon barrel	22.00	C
			Total:	35.34

TOOLS THAT MAY REQUIRED

	3/8" Drill	Pliers
	1 3/4" holesaw	Knife
	2 1/2" holesaw	Jig Saw

SUPPLIERS

A: Aquatic Eco-systems Inc, 2395 Apopka Blvd, Apopka, FL 32703 (877) 347-4788

B: Ace Hardware

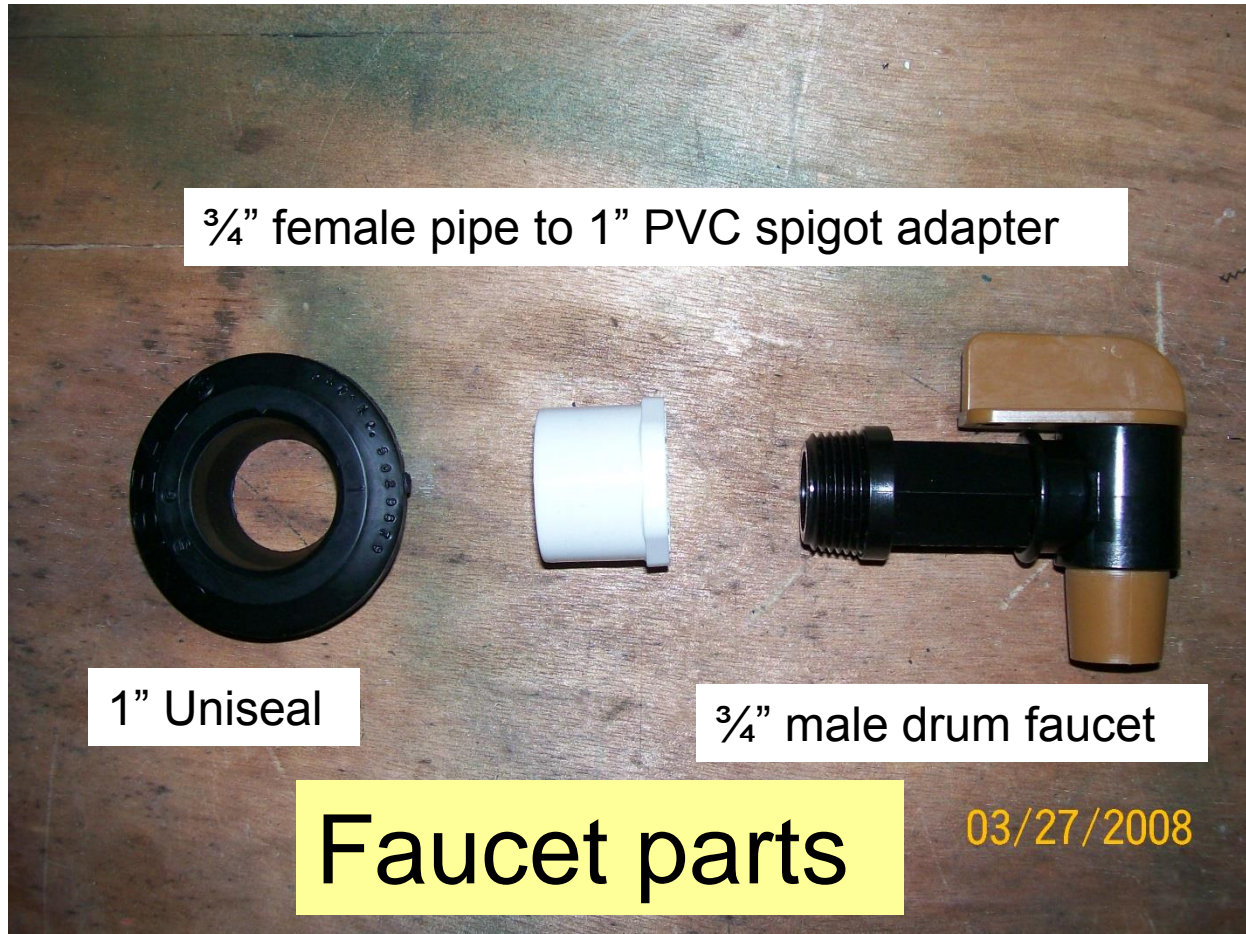
C: Milco Equipment Rental-Sales-Service, 601 S US 1, Bunnell 32110 (386) 437-0565

First you need a barrel

- 50 gallon or more
- Food grade
- U.V. Stabilized
- Opaque (discourages algae growth)



Then you need a faucet ...



Installing the faucet ...



1. Drill 1 $\frac{3}{4}$ " hole



2. Insert 1" Uniseal



3. Insert $\frac{3}{4}$ " drum faucet with 1" adapter

You need an overflow



1 1/2" PVC Street El

1 1/2" Uniseal

Optional – 3 feet of 1 1/2" PVC Spa hose

Installing the overflow



1. Drill 2 ½" hole



2. Insert 1 ½" Uniseal

...



3. Insert 1 ½" PVC Street El

Make a rainwater filter in the lid...



Drill 2 1/2" holes in the lid

Add filter material



Finished rain barrel



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How many rainbarrels do I need?

1 inch of rainfall is equal to approximately 0.6 gallons per square foot of roof surface.

Therefore, 1000 square feet of roof can collect as much as 600 gallons per inch of rainfall.

You can use one rainbarrel as a collector from your downspout and overflow into several storage rainbarrels. Most of the roof and gutter sediment will settle in the first rainbarrel and provide cleaner water to your storage barrels.

Rain barrels for extra storage



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For additional information please call:

(386) 986-3700