

# RUTGERS

New Jersey Agricultural  
Experiment Station

## Camden Conserves



**An informational program provided by  
the CamdenSMART Initiative:**

**Camden City**

**Camden County Municipal Utilities Authority**

**NJDEP**

**Coopers Ferry Partnership**

**New Jersey Tree Foundation**

**Rutgers Cooperative Extension,**

**Water Resources Program**

# Why change the way we do things?

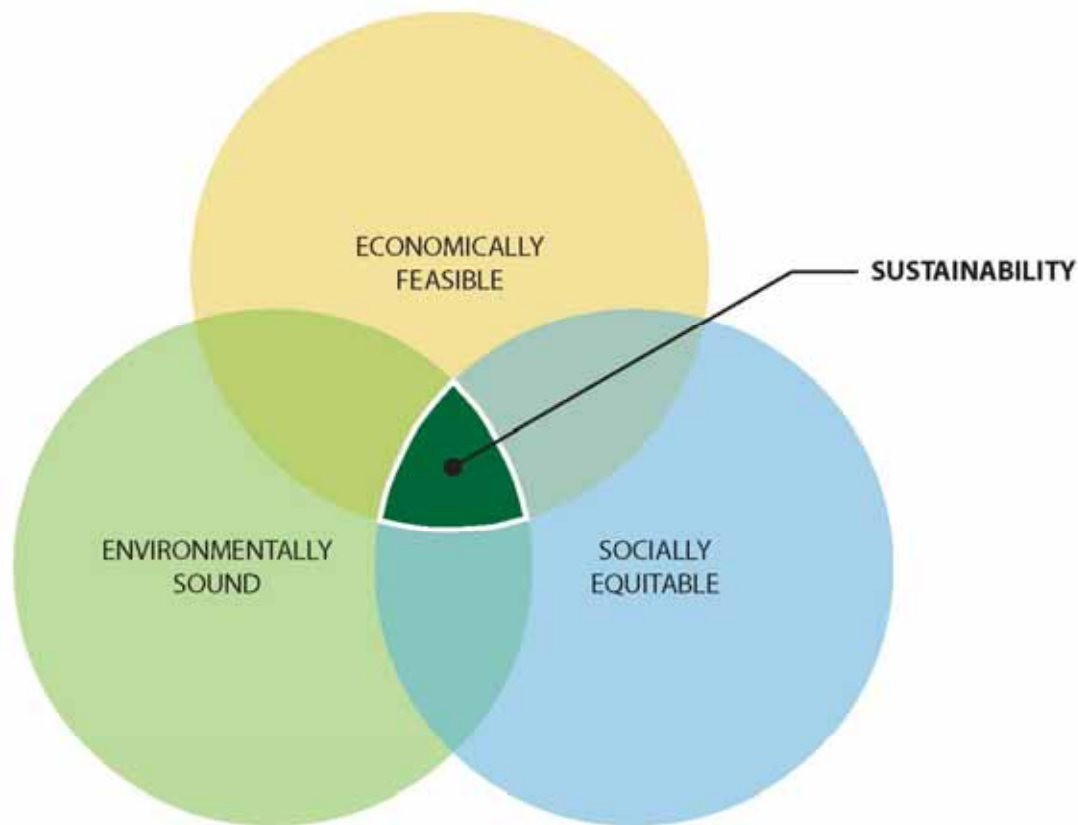
Your actions are part of a bigger movement towards **SUSTAINABLE LIVING:**

- Protecting water resources
- Saving money and energy
- Reducing water consumption

# What is Sustainability?

***“Actions and practices that meet the needs of the present without compromising the ability of future generations to meet their own needs.”***

- Brundtland Report, *Our Common Future* (1987)



# Camden Conserves

Actions and practices for SUSTAINABLE LIVING:

- **Protecting water resources**
- Saving money and energy
- Reducing water consumption

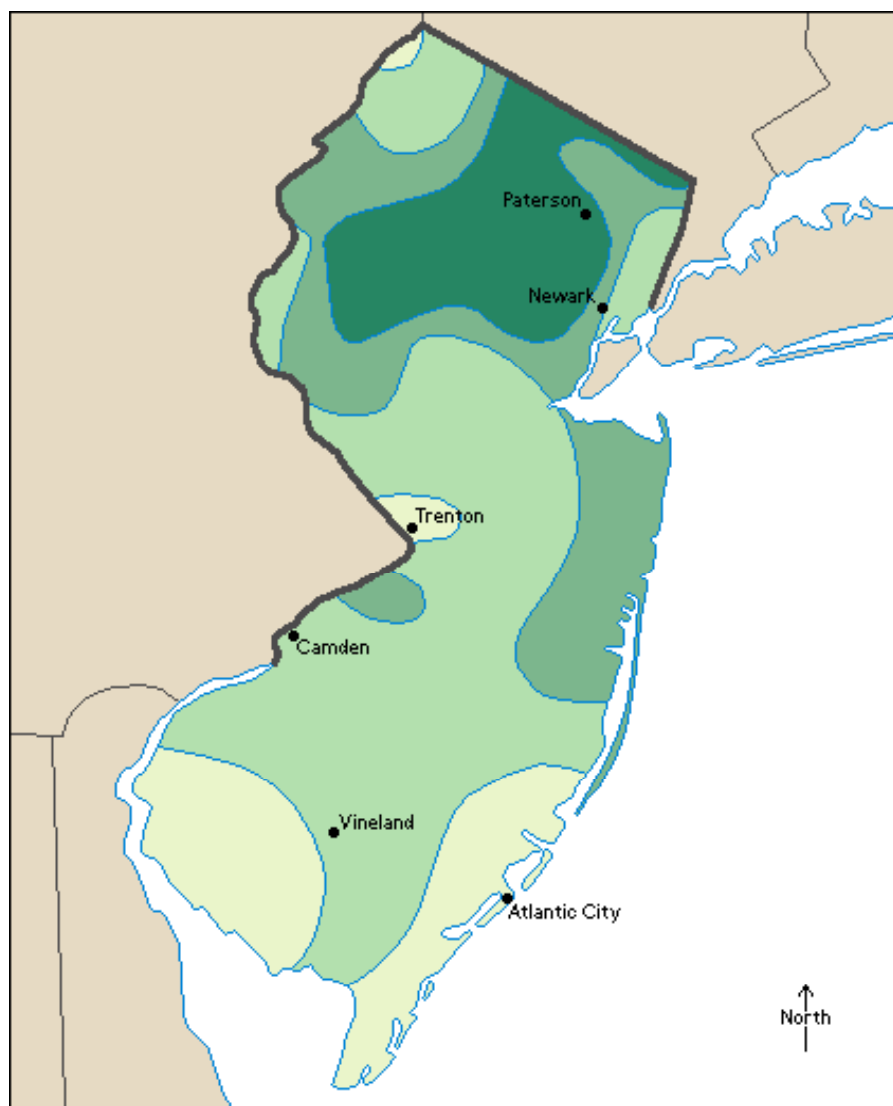


# Protecting Water Resources

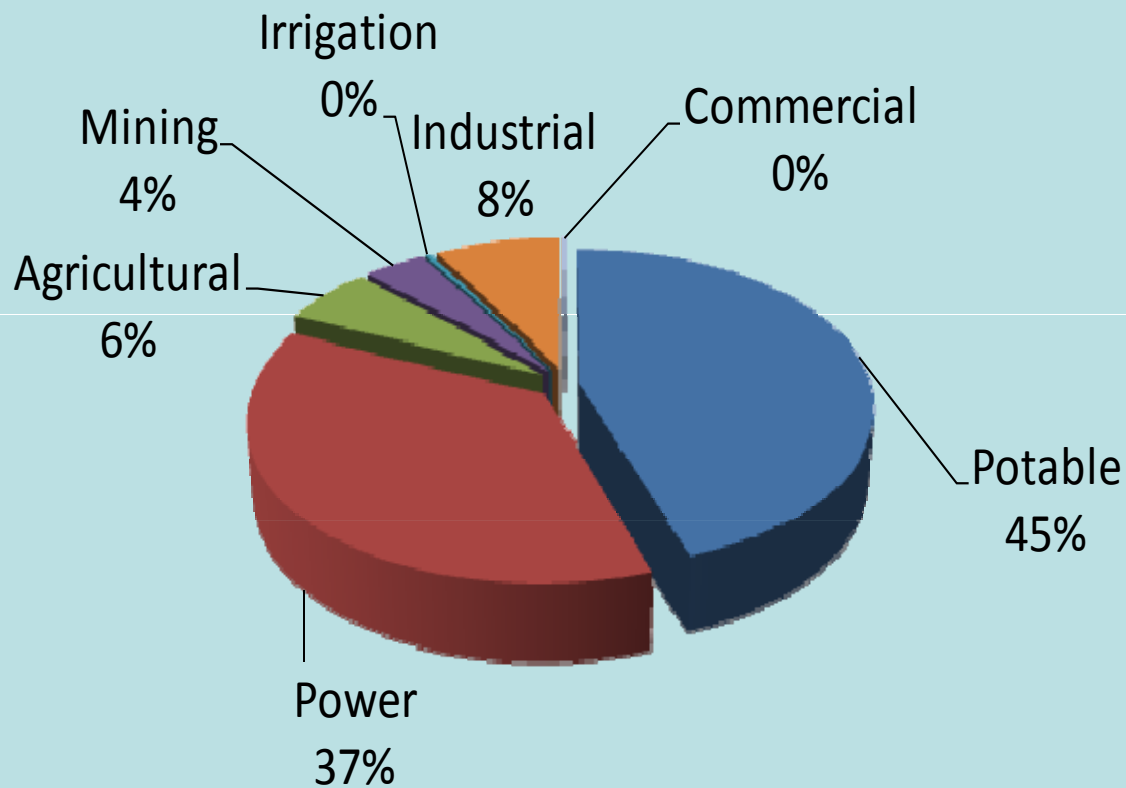
While NJ is a “water-rich” state receiving over 40 inches of rainfall each year:

- New Jersey is also the most densely populated state in the country
- The average New Jersey resident uses **100** gallons of water per day
- Residents engaging in outdoor watering & irrigation increase their average water use up to **185** gallons per day in the summer months

# Protecting Water Resources

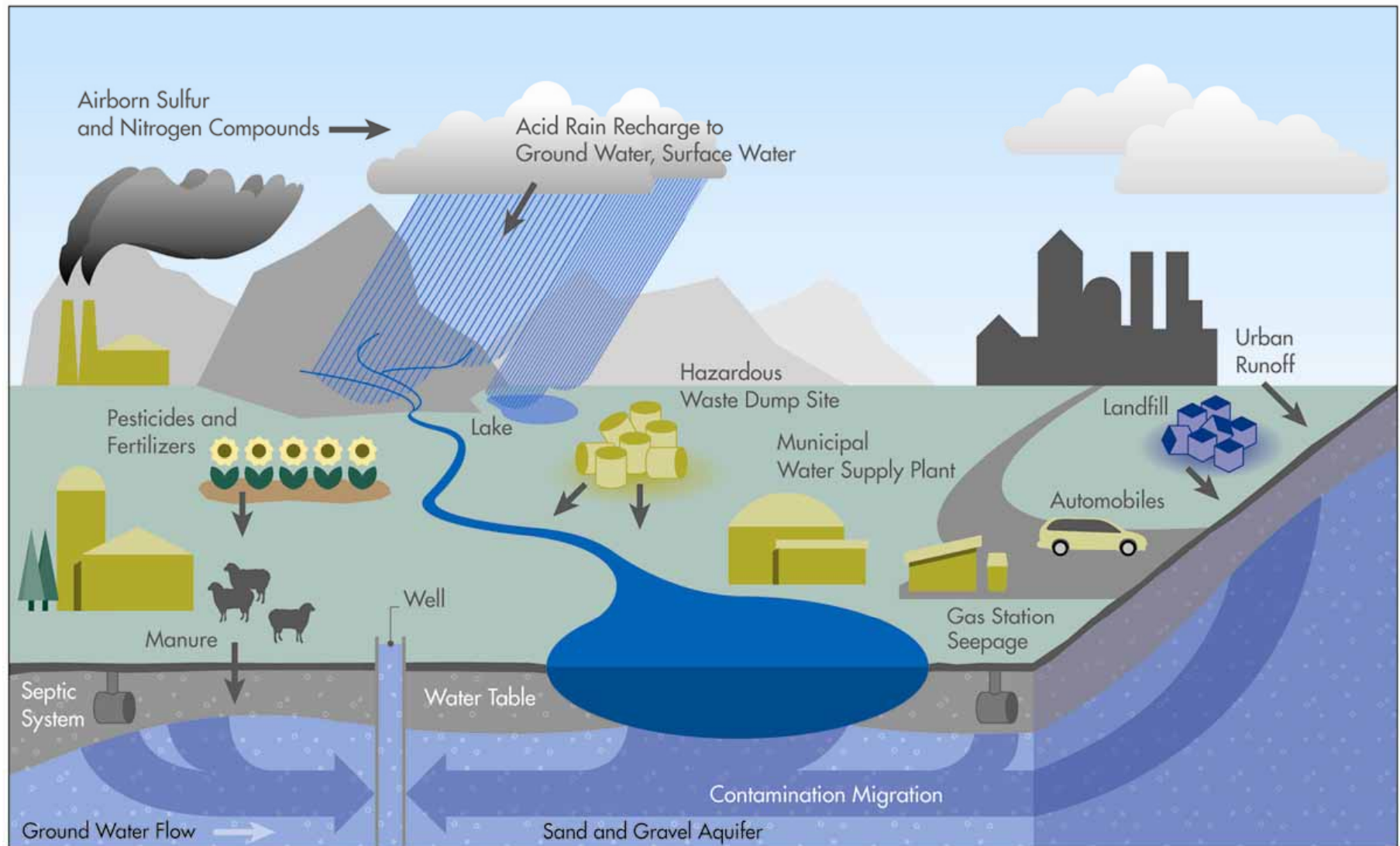


# Protecting Water Resources



Data from New Jersey water withdrawals, transfers, and discharges by watershed management area, 1990-1999, NJ USGS

# Protecting Water Resources





## Protecting Water Resources

- According to EPA, **47%** of assessed waters do not meet water quality standards...
  - **20,000** individual river segments
  - **400,000** miles of rivers and shorelines
  - **9 million** acres of lakes
- Bacteria, nutrients, sediment are main pollutants
- **218 million** people live within **10 miles** of these polluted waters!

# Camden Conserves

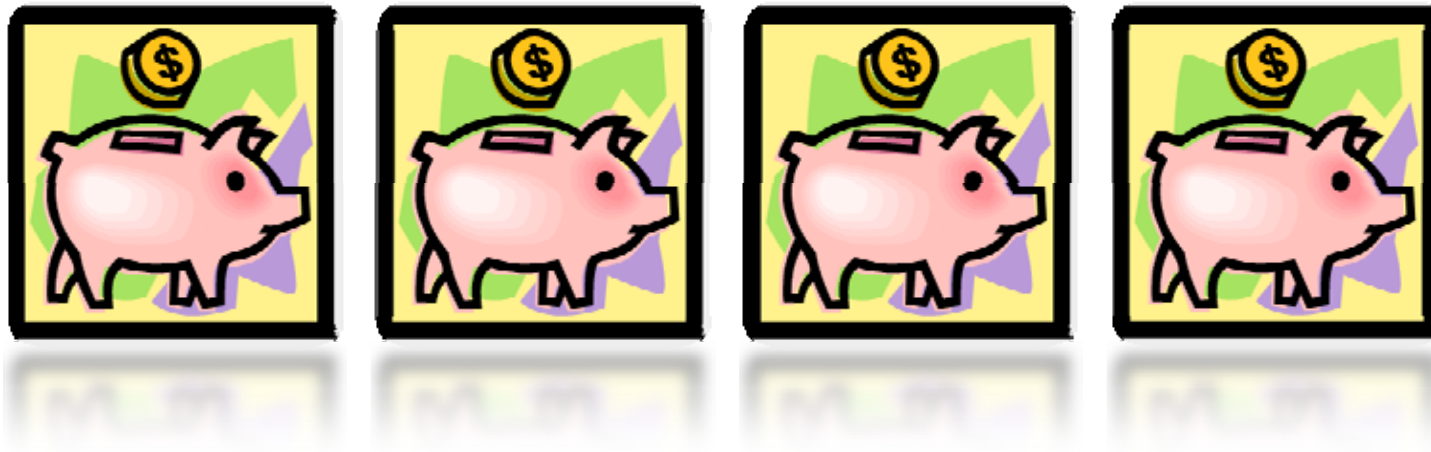
## Actions and practices for SUSTAINABLE LIVING:

- Protecting water resources
- **Saving money and energy**
- Reducing water consumption



# Saving Money and Energy

Using less water requires less energy and  
can save you money



# Saving Money and Energy

- A family of four could save as much as **\$75** a year just by turning off the tap while brushing their teeth in the morning and at night.
- By fixing a leaky toilet a family could save **\$210** more.
- If a family of four switched from taking daily baths to short five minute showers they would save up to **\$490** in just one year.
- A family could save as much as 25,000 gallons and up to **\$162** a month just by running an automatic irrigation system two times a week instead of four.



**Low flow shower**

SOURCE: [www.njwatersavers.rutgers.edu](http://www.njwatersavers.rutgers.edu)

# Saving Money and Energy

- Extends the life and reliability of public and private infrastructure
- Prevents or postpones the need to fund and build expanded public works systems
- Helps prevent water pollution and combined sewer overflows (CSOs)



# Camden Conserves

## Actions and practices for SUSTAINABLE LIVING:

- Protecting water resources
- Saving money and energy
- **Reducing water consumption**



# Reducing Water Consumption...Indoors

- Fix household leaks
- Wash full loads of laundry and dishes
- Turn water off while brushing teeth
- Take shorter showers – 5 minutes or less
- Avoid using running water to thaw frozen foods



# Reducing Water Consumption...Outdoors

- Water only when needed (1"/ week)
- Water in the early or late hours of the day
- Use a shut-off nozzle on your hose
- Wash vehicles at a car wash that recycles water





# Other Ways to Reduce Water Use

## ***Outdoor***

- Adjust watering as conditions change
- Use native plants
- Mulch around plants
- Water early in the morning

## ***Indoor***

- Look for EPA WaterSense logo
- WaterSense toilets (20% less water)
- Energy efficient dishwashers and washing machines (50% less water)
- WaterSense showerheads (40% less water)
- Faucet aerators

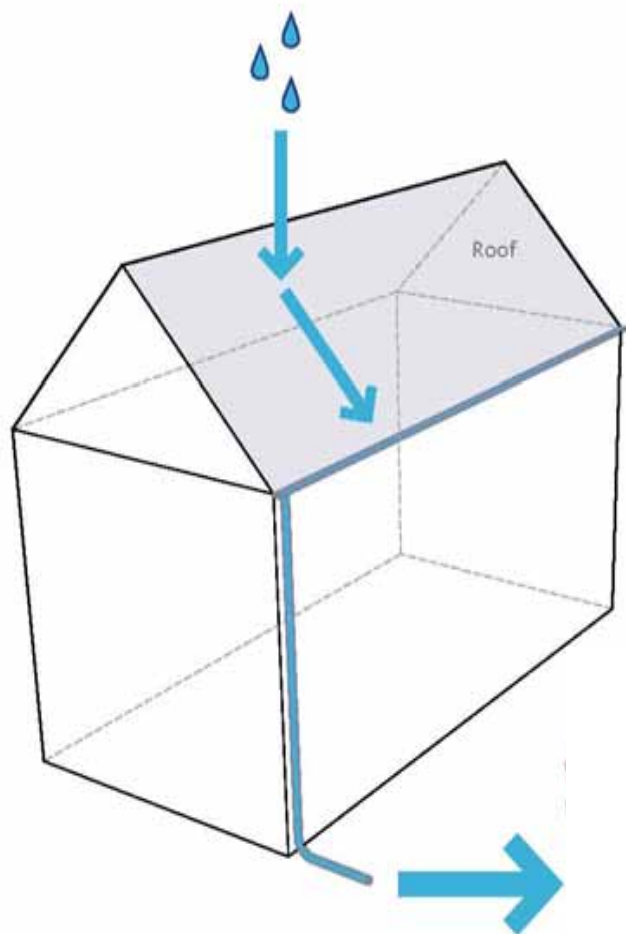


# More Ways to Reduce Water Use...

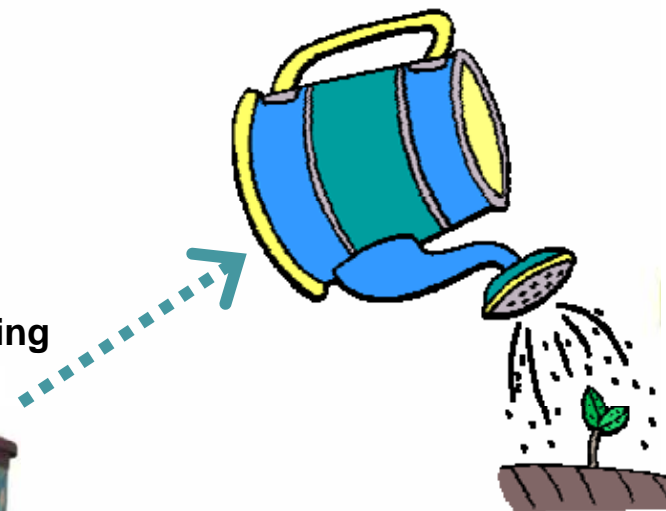
- Disconnect Downspouts
- Capture Rain Water Runoff
- **Install a Rain Barrel!**



# Reduce Rain Water Runoff



Disconnect your  
downspout by installing  
a rain barrel



REDUCE THE AMOUNT  
OF RUNOFF ENTERING  
STORM SEWERS



# How much water can you harvest from one rooftop?

Using a roof area of 800 ft<sup>2</sup> (40' x 20')



Photo by: SharkeyinColo

1" rainfall event = 500 gallons

42" rainfall per year = 20,950 gallons

# Reduce Rain Water Runoff





# Reduce Rain Water Runoff



# Downspout Disconnection/Redirection





# Use of Rain Barrel Water

- Use water within a week or two to discourage algal growth
- Use water before next rain is expected or connect to soaker hose in garden





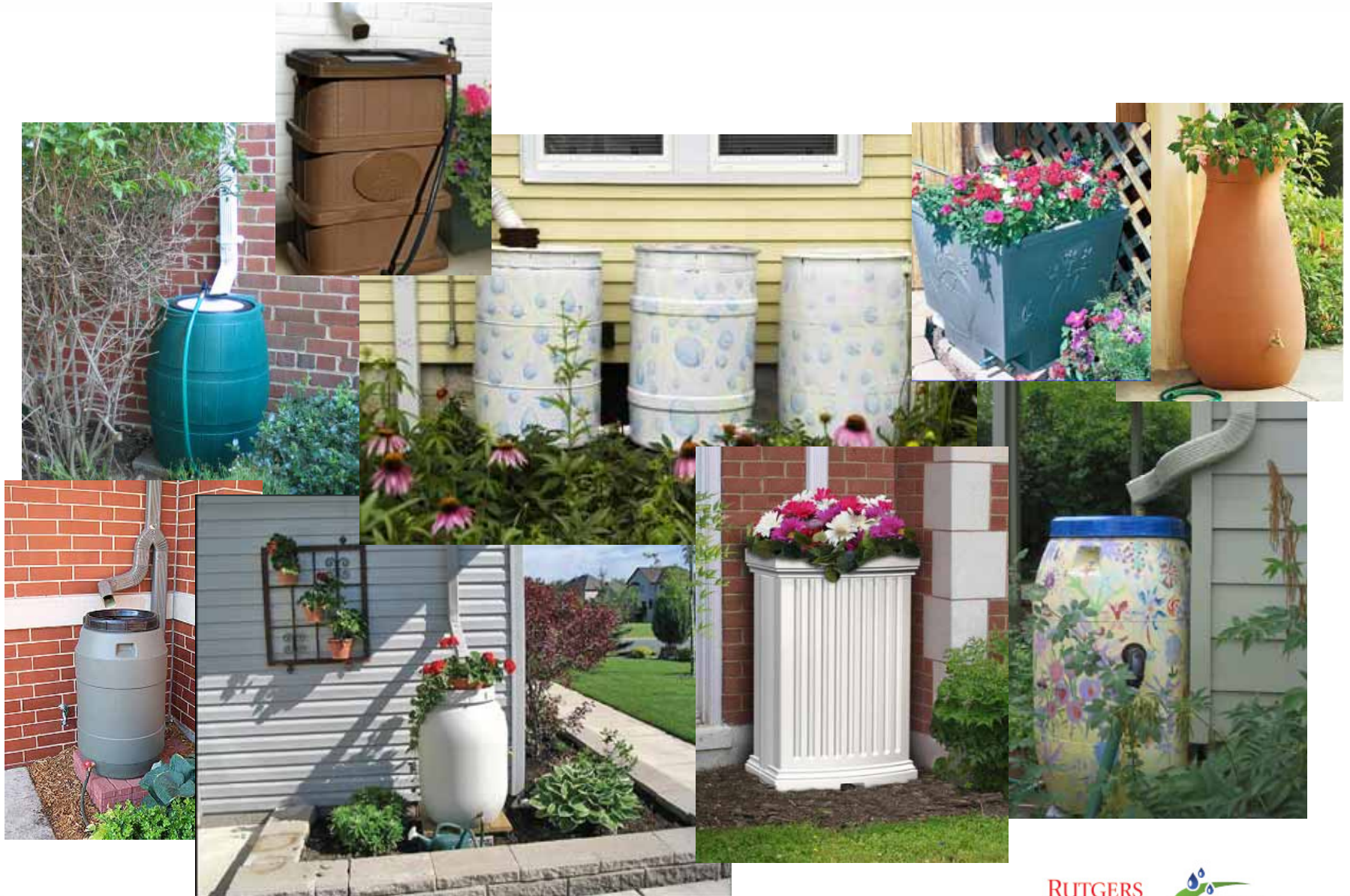
# Use of Rain Barrel Water

In addition to watering shrubs, trees & gardens:

- Wash the dog, car or muddy feet
- Use in toilet tanks
- Use in birdbaths



# So Many Barrels to Choose From...



# Where to Get Barrels

## Food grade, 55 gallon, High Density Polyethylene Plastic (HDPE)

### Sources:

- New- Barrel and drum manufacturers online or phonebook
- Used- internet, barrel recyclers, local industries examples:
  - Pickling companies
  - Beverage companies
  - Car washers
- County Build A Rain Barrel Workshops

### Cleaning

- Used barrels should be washed with soap and triple rinsed.





# Help us all live more sustainably!





# Other Ways You Can Help



**Plant Trees in Camden**



**Attend a Rain Barrel Workshop**



**Install a Rain Garden**

## For more information

- Visit [www.CamdenSmart.com](http://www.CamdenSmart.com) to find out about Camden City efforts and events
- Visit [www.epa.gov/watersense](http://www.epa.gov/watersense) for information on water saving technologies
- Visit [www.njwatersavers.rutgers.edu](http://www.njwatersavers.rutgers.edu) for information on water conservation practices

