#### Cisterns

### **Definition/Purpose**

Cisterns are above or below ground storage tanks for rainwater harvesting systems used to collect and store rainwater. The sey are intended to reduce stormwater runoff, encourage runoff infiltration and conserveutilize the captured -rainwater.

### **Policies:**

- 1. Cisterns must be placed in accordance with manufacturer's instructions.
- 2. Cisterns shall be sized to provide 0.5 1.0 gallon of cistern volume for each square foot of contributing rooftop depending on the site and the water use demand.
- 3. Cost share assistance will only be provided for cisterns 250 gallons or larger.
- 4. Cistern cost share eligibility to receive CCAP funding is based on the existence of a water quality concern. The CCAP checklist must be completed.
- 5. Agricultural non-point source pollution sources are not eligible, with the exception of runoff from a greenhouse on an educational entityfacility (ex: school).
- 6. Any system collecting 3,000 gallons or more requires a PE design, regardless of the number of cisterns and whether or not they are connected.
- 7. If installing multiple cisterns, cisterns should be connected. If the cisterns are not connected, a written justification is required. This justification will determine whether one or more accessory packages can be approved.

CISTERN		
Lifespan	5 years single-family home, 10 years all other properties	
BMP Units	GALLONS	
Required Effects	Number of gallons harvested/reutilized ( <u>Rainwater</u> <u>Harvesting Model</u> )	
JAA	Commission issues <u>JAA</u> for cisterns <3,000 gallons, a Professional Engineer must design cisterns >3,000 gallons	

## Community Conservation Assistance Program

<u>Standards</u>	CCAP Design Manual, Chapter 7 – (link needs updating)
Additional	NC Stormwater Manual, Chapter 7
Resources	NCSU Guide for Homeowners
CS2 Reference	NC-CSP-11 Signature Page
Materials	Map with BMP location
	<u>Cistern checklist</u>
	<ul> <li>Cistern Operation &amp; Maintenance Plan</li> </ul>
	<ul> <li>Receipts for Actual Costs</li> </ul>
	<ul> <li>Receipts Summary form</li> </ul>
Items to	<u>Cistern operating level spreadsheet</u>
Maintain in	
District File	

## **Standards**

CCAP Design Manual, Chapter 7

### **Additional Resources**

 ${\color{red} NCSU\ Guide\ for\ Homeowners\ -} {\color{red} \underline{https://content.ces.ncsu.edu/rainwater-harvesting-guidance-for-homeowners}}$ 

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