



CCAP Cistern Checklist

Please complete & include with CCAP contract & Technical assistance requests

Contract #: _____

Landowner Name: _____

District Contact: _____

A. Site Eligibility

1. The site land use is:
 Agriculture Ineligible for CCAP funds
 Non-agriculture continue to A2

2. Please indicate the water quality concern below:
The gutter downspouts are connected/drain to:
 Established vegetated area >30 feet Ineligible for CCAP funds
 Outlet <30 feet continue to A3
 Significantly eroded vegetated area continue to A3
 Impervious surface (road, driveway, etc) continue to A3
 Storm drain continue to A3
 Waterway continue to A3

3. A photograph of the water quality concern/problem has been submitted with this form.
 Yes continue to A4
 No complete before proceeding

4. This project has been evaluated using the District CCAP ranking form, examined for its potential water quality benefit, and given priority by the District Board:
 Yes continue to B1
 No complete before proceeding

B. Water Use

1. The water use demand has been measured and documented below (please use the most recently approved Rainwater Harvesting Model and the Cistern Operating Level spreadsheet):
 - a. Please provide a detailed description of what the cistern water will be used for:

 - b. What is the estimated water use? _____
 - c. How was this determined? _____

- Yes (*the questions above have answered*) continue to B2
- No (*the questions above are incomplete*) complete before proceeding

2. The cistern water will be used for:

- Irrigation continue to B3
- Washing vehicles continue to B4
- Indoor non-potable uses continue to B5
- Other uses contact CCAP specialist

3. This water will be used to irrigate:

- Non-edible plants continue to C1
- Edible plants See O&M Plan

(Remind landowners to wash their produce before consuming)

4. The runoff from washing vehicles is directed to:

- Impervious surfaces ineligible for CCAP funds
- Pervious, vegetated surface continue to C1
- Companion BMP (rain garden, etc) continue to C1

5. If cistern water is used for Indoor non-potable uses, the Landowner must be informed that:

- CCAP cannot provide cost share or assistance for any plumbing work.
- They must follow any applicable codes and regulations.
- The above has been completed continue to C1

C. Sizing

1. The roof drainage area has been determined and documented below:

Total roof area the cistern will be capturing: _____ sq ft.

- Yes continue to C2
- No complete before proceeding

2. The potential water use demand has been documented (*BI and as a Model input*):

- Yes continue to C3
- No complete before proceeding

3. Both C1 and C2 have been used to determine the estimated cistern size:

- Yes continue to C4
- No complete before proceeding

4. If necessary, gutter modification and sizing has been discussed with a specialist:

- Yes continue to C5
- No complete before proceeding

NCSU guidelines recommend 1 square inch of downspout per 100 square feet of rooftop.

5. Sizing documentation has been included (rain water harvesting model outputs, etc):

- Yes continue to D1
- No complete before proceeding

The proposed size of the cistern is: _____ gallons

D. Storage

1. The effective operating level has been determined (use the Cistern Operating Level Spreadsheet)

(The max amount full the cistern can be, and still capture the first flush):

- Yes continue to D2
 No complete before proceeding

E. Location and Construction

1. Is the cistern < or > 1,500 gallons?

- Less than 1,500 gallons A 6" – 8" gravel base is needed
 Greater than 1,500 gallons A concrete pad 4" – 6" is needed

2. Is the home on a slab or a crawl space foundation?

- Slab Proceed to E3
 Crawl space Proceed to E4

3. Slab foundations may be only 4" – 6" thick. Have you ensured you have the necessary depth for excavation for the cistern base without compromising the foundation?

- Yes Proceed to E5
 No Stop! Take appropriate action to ensure the foundation will not be compromised

4. Crawl space foundations are typically at least 12" thick. Have you ensured the necessary depth for excavation of the cistern base without compromising the foundation?

- Yes Proceed to E5
 No Stop! Take appropriate action to ensure the foundation will not be compromised

5.

6. Is there sufficient room to install the required plumbing for the cistern?

- Yes Proceed to E6
 No Adjust the location of the cistern for proper installation then proceed

7. Will the overflow for the cistern directed away from the foundation?

- Yes Proceed to F
 No Stop! Adjust the location as needed then proceed to F

F. The operation and maintenance plan has been signed by the Landowner to assure cistern usage and effectiveness:

- Yes YOU ARE QUALIFIED!!!
 No complete before proceeding