



Ag Water Supply Reuse Pond Summary

AgWRAP BMP Description and Policy

Description: Construct agricultural ponds for water supply for irrigation or livestock

watering. Benefits may include water supply, erosion control, flood control, and sediment and nutrient reductions from farm fields.

AgWRAP Water Supply Reuse Pond Policy

Maintenance Period: 10 Years

Additional Spot Check Requirements: Annually

CS2 Contract Requirements

CS2 Project Description Examples:

BMP	Explain how the operation's production is limited by the amount of water it can currently access	Describe how the proposed project/BMP will increase water resources
Agricultural Water Supply/Reuse Pond	<p>Operator has a blackberry operation that is solely served by municipal water. He wishes to construct a pond to better irrigate his operation.</p> <p>Operator pumps off a small creek and has a well, but neither source has the storage capacity required to meet their crop irrigation needs.</p> <p>Producer is dependent on insufficient rainfall for irrigation on pasture for cows.</p>	<p>Pond will decrease dependency on municipal water supply.</p> <p>A pond will increase their water storage capacity to meet existing needs and allow them to expand their operation.</p> <p>A pond will decrease dependency on erratic rainfall events, allowing producer to sufficiently irrigate pasture and increase grazing capabilities.</p>

BMP Units: Each

Cost Information: Actual cost - paid based on receipts. Maximum cost share amount \$30,000 (75%) OR \$36,000 (90%).

Expected Results:

- Volume of Water Storage Increased (gallons), and
- Acres Irrigated, or
- Animal Type and Number

Reference Materials:

- Conservation Plan
- NC-AgWRAP 11 Signature Page
- Map with BMPs, Tract, Field, and Contract Numbers
- [Preliminary Site Assessment Form](#)
- [Operation and Maintenance Plan](#)
- [Cooperator Acknowledgment Form](#)
- Water Balance Tool Results
- Inventory and Evaluation Form
 - [Irrigation](#)
 - [Livestock](#)
- [Certificate of Completion](#)

CS2 Components	Units
AgWRAP Agricultural Water Supply/Reuse Pond	Each
AgWRAP - Engineering for low hazard embankment pond <i>(If using a Private Engineer only)</i>	Job
AgWRAP - Engineering for intermediate or high hazard embankment pond <i>(If using a Private Engineer only)</i>	Job

JAA/Supporting Standards

JAA:

- Design must be signed and sealed by a Professional Engineer.

NRCS Supporting Standards:

- [NRCS - 378 - Pond](#)
- [NRCS - 402 - Dam](#)
- [NC Dam Safety Law - 15A NCAC 02K](#)
 - [Dam Construction Approval Flowchart](#)
 - [Dam Approval Application Checklist](#)
 - [Dam Approval Outline](#)
 - [Dam Safety Checklist](#)

[BMP JAA Application Requirements](#)

Planning and Design Tools

District Tools:

Project Workflow - needs updating, draft version complete, needs review.

Water Balance Tool - format not accepted, cannot upload

[Pond Volume Calculator](#)

Contract Folder Checklist

District Resources:

[Ponds - Planning Design and Construction \(NRCS Ag Handbook 590\)](#)

[NC Mining Act and Agricultural Pond Construction FAQs](#)

Engineering Resources:

[Jurisdictional Determination / Hazard Classification Request \(NCDEQ\)](#)

[Emergency Action Template](#) (Intermediate & High Hazard Dams)

Permit Considerations:

- [US Army Corps of Engineers Permitting Options for Farm Pond Construction](#)
- [Suggested Steps for Agricultural Pond Evaluation](#)
- [Agricultural Pond Development Frequently Asked Questions](#)
- [US Army Corps of Engineers Farm Pond/Irrigation Exemption Request](#)