

## **Agricultural Water Storage and/or Collection System**

### Definition/Purpose

Construct an agricultural water management and/or collection system for water reuse or irrigation for agricultural operations. These systems may include any of the following: water storage tanks, pumps, water control structures, and/or water conveyances. Benefits may include reduced demand on the existing water supply by collection and reuse and decrease withdrawal from water supplies.

### Policies

1. The system shall be for agricultural use.
2. The system must be certified by a professional engineer. An individual with appropriate job approval authority may certify a water storage reservoir or pumping plant as an addition to an existing system.
3. Cost share for this practice may include components necessary to collect and store water for use. Components may include:
  - Water storage tanks, including concrete pads
  - Pumping and piping for transfer from a collection pond/tank to a storage pond/tank. If pumps are cost shared, adequate housing for the pump must be provided and is cost sharable.
  - Electricity required for pumping
  - Water control structures
  - Water conveyances
  - Components needed as designed by a PE
4. This practice may be used to collect and store water from the following sources:
  - Water Supply Wells
  - Spring Developments
  - Streamside Pickups (baseflow interceptors)
  - Rooftop structures
  - Rainwater
  - Municipal Water
5. Irrigation equipment is not eligible for this practice.
6. Water from this system can be used for irrigation, washing and cooling livestock, agricultural equipment, and other non-potable agricultural purposes. Capturing and recirculating from an existing aquaculture system is also allowable.
  - Some types of water collection and storage may not be suitable for irrigation, fertigation, foliar sprays, frost protection, rinsing, washing, ice, cooling, postharvest

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fungicide and wax, handwashing, cleaning and sanitizing of produce due to the Produce Safety Rule. Water may need to be treated before use.

7. Operation and Maintenance Plan is required.
8. This practice is not intended to be used to supply drinking water for humans or livestock. In cases of emergency, exceptions may be made for watering livestock. Refer to policy 9 for more information. If livestock watering is the main objective, please refer to the AgWRAP Livestock Water Storage BMP.
9. If applicable, livestock shall be excluded from the collection structure. In cases of emergency, cooperators may contact their district and request a temporary exception. Duration of exception will be determined by the district and supporting notes will be included in the contract file. Emergencies may be defined as power outages, pump failures, extreme periods of drought and/or depletion or contamination of the existing water source.
  - For fencing to be eligible for cost share assistance, the minimum standard the cooperator shall follow is the NRCS 382 standard.
  - Where fencing is implemented, but not cost-shared the applicant shall not be required to meet the NRCS 382 standard, only to demonstrate that the fencing is adequate to exclude livestock.
10. Cooperators are responsible for obtaining and complying with all required permits.

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<b>AGRICULTURAL WATER STORAGE AND/OR COLLECTION SYSTEM</b>	
<b>Maintenance Period</b>	10 YEARS
<b>BMP Units</b>	EACH
<b>Required Effects</b>	<ul style="list-style-type: none"> <li>• Volume (gallons) of Water Storage Increased or Created AND</li> <li>• For Irrigation: Acres irrigated (annually) OR Acres affected (annually)</li> <li>• For Livestock (washing and cooling only, for drinking water, refer to Livestock Water Storage BMP): Number and type of livestock</li> </ul>
<b>JAA</b>	<ul style="list-style-type: none"> <li>• Professional Engineer.</li> <li>• An individual with appropriate job approval authority may certify a water storage reservoir or pumping plant as an addition to an existing system.                             <ul style="list-style-type: none"> <li>○ NRCS – 436 - Irrigation Reservoir</li> <li>○ NRCS – 533 - Pumping Plant</li> <li>○ NRCS – 587 - Structures for Water Control</li> </ul> </li> </ul>
<b>Supporting NRCS Standards for Reference</b>	<ul style="list-style-type: none"> <li>• ENG - 558 - Roof Runoff Structure</li> <li>• NRCS – 436 – Irrigation Reservoir</li> <li>• ENG – 587 – Structures for Water Control – Flash Board Riser</li> <li>• ENG – 378 – Pond – In-line Structures</li> <li>• ENG – 533 – Pumping Plant</li> <li>• ENG - 574 - Spring Development</li> <li>• ENG - 642 - Water Well</li> </ul>
<b>Cost Information</b>	<ul style="list-style-type: none"> <li>• Actual cost - paid based on receipts</li> <li>• Maximum cost share amount \$15,000 (75%) OR \$18,000 (90%)</li> </ul>
<b>CS2 Reference Materials</b>	<ul style="list-style-type: none"> <li>• NC-ACSP-11 Signature Page</li> <li>• Map with BMP location, fields, and roads.</li> <li>• Conservation Plan</li> <li>• Cooperator Acknowledgement Form</li> <li>• O&amp;M Form</li> </ul>
<b>Additional Spot-check requirements</b>	The district shall inspect the site one year after installation, then follow typical spot check requirements.