



AgWRAP IRRIGATION INVENTORY and EVALUATION FORM

Repair/Retrofit and Water Supply/Reuse Ponds



COOPERATOR INFORMATION

First Name

Last name

Street Address

City

County of Pond Site

Tract - Field

Pond Site Coordinates (decimal degrees):

LAT LONG

Type of operation:

- Row Crop
- Specialty Crop (Fruits, Vegetables, Herbs)
- Green Industry (Greenhouse, Nursery, Floriculture, Turf Crops)
- Hay/Pasture
- Other, specify:

COOPERATOR OBJECTIVE

Provide a detailed explanation of the Cooperator's objectives as they relate to irrigation.

How will a Agricultural Water Supply/Reuse Pond be used to meet the Cooperators objectives?

IRRIGATION MANAGEMENT - EXISTING

Information in this section should reflect the EXISTING cropping systems, acreages and irrigation management

Existing water sources on site

- Pond/Lake
 Stream/River
 Ditch

- Well
 Municipal
 NONE

Other:

Does the cooperator currently irrigate any crops?

YES NO

If no, skip to the next section *Irrigation Management - Planned*

Number of years irrigated in the last five years:

Does the cooperator have an Irrigation Water Management Plan?

YES NO

Cropping history:

Crop	Non-irrigated		Irrigated		Total Acres
	Acres	Avg. Yield	Acres	Avg. Yield	

Type of existing irrigation system

- Center Pivot
 Linear Move
 Travelling Gun

- Fixed Solid Set
 Micro-irrigation
 Subsurface

Other:

Current power source

Electric

Diesel

Other:

List existing conservation practices

IRRIGATION MANAGEMENT - PLANNED

Information in this section should reflect the PLANNED cropping systems, acreages and irrigation management

Specify the crops and TOTAL acres the cooperator plans to irrigate (existing + expansion)

Field	Crop to irrigate	Irrigated Acres

Type of planned irrigation system

Center Pivot

Fixed Solid Set

Other:

Linear Move

Micro-irrigation

Travelling Gun

Subsurface

Power source

Electric

Diesel

Other:

Estimated volume of water that will be used to irrigate planned crops (AF)

AgWRAP Water Balance Tool -> Summary Sheet -> Demand -> Total AF

List additional and alternative practices that will be planned to address irrigation management concerns

SITE CHARACTERISTICS - PROPOSED POND

The values in this section are based on a proposed pond site and simple measurements. These values are intended to provide a rough estimate of pond site characteristics and are subject to change when a more detailed site investigation is conducted.

Type of Pond: Excavated

Embankment

Combination

Watershed Drainage Area (ac)

Calculate Watershed Drainage Area using GIS or <https://streamstats.usgs.gov/ss/>

Pond Surface Area (ac)

Pond Volume (ac-ft)

Pond volume = Pond Surface Area X Max. Water Depth*
X Reduction Factor**

*If actual depth is unknown use 8 ft as an estimate.

**Excavated/Dug pond - Reduction Factor = 0.7

**Embankment/dam pond - Reduction Factor = 0.4

SOIL SUITABILITIES AND LIMITATIONS

List the predominant soil(s) present in and around the pond impoundment area*:

Map Unit Symbol	Map Unit Name	Pond Reservoir Area Rating	Embankments, Dikes, Levees Rating

*This information can be determined using USDA NRCS Web Soil Survey (<https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>).

Web Soil Survey Procedure - Navigate to pond site >> *Define AOI* that includes pond reservoir and surrounding area>> Open *Soil Data Explorer* tab>> Open *Water Management* drop down>> Open *Pond Reservoir Areas* drop down>> Keep the default *Options* checked>> Click *View Ratings*>> Enter appropriate Map Units and Ratings above>> Repeat the last four steps to determine Embankments, Dikes and Levees ratings.

Is there an adequate place onsite to place spoil?

YES

NO

NA

ADDITIONAL INFORMATION

Provide any additional information in the space below

TECHNICAL REPRESENTATIVE

Name

Agency

Date

Signature

Date