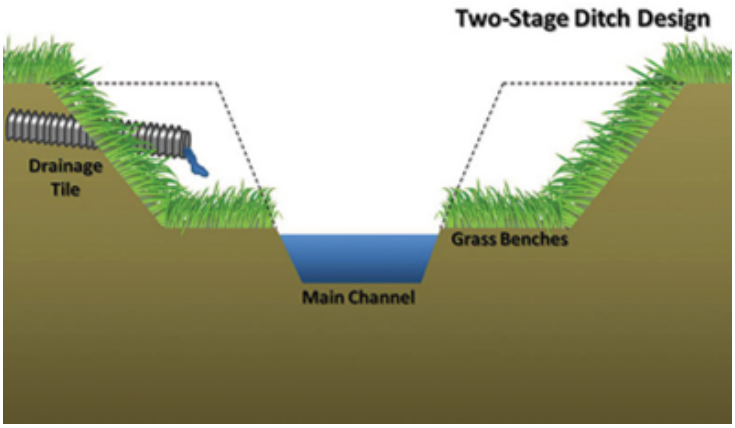
ADMC Agricultural Drainage Management Coalition

FACT SHEET

# Two - Stage Ditch

## ABOUT

**Two-stage Ditches** widen the conventional channelized drainage ditch and include a floodplain bench. The floodplain bench provides water storage and is vegetated which encourages nutrient removal.




**Two- Stage Ditch Schematic**

## BASICS

### Site requirements

- Ditches with grades <2%
- Appropriate for sites with eroding banks
- Helps on sites where outlets a frequenlty under water

### Footprint

A rule of thumb for two-stage ditches is that their top width is approximately 3x as wide as a conventional ditch.

### Performance

- The USDA-ARS has reported a 30% higher denitrification rate along the constructed floodplain.
- Reduces soluble reactive phosphorus concentrations
- Higher sediment capture

### Management

Two-stage ditches have less maintenance than traditional drainage ditches.

30% higher denitrification rate

Installation costs range from $5-$50 per linear foot

- Water storage
- Reduces peak flows
- Sediment removal

## INTERACT WITH ADMC

515-291-2350
kkult@admcoalition.com

**For more information visit us at www.admcoalition.com**

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