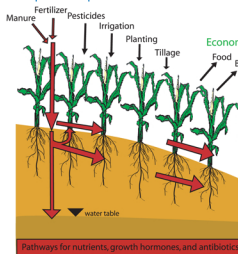


We are proposing prairie biofuel buffers as an economical practical application to improve water quality while providing low maintenance biofuels, corridors of wildlife habitat, and opportunities for carbon sequestration.

## Row Crop Annual Inputs:



## Economic Outputs:

- Nutrients cause algal blooms and fish kills.
- Growth hormones "feminize" fish.
- Antibiotics stimulate microbial resistance.
- Soil erosion degrades aquatic habitat

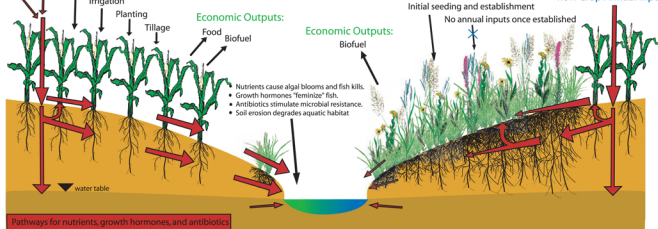
## Prairie Buffer Inputs:

- Initial seeding and establishment
- No annual inputs once established

## Economic Outputs:

- Biofuel

## Row Crop Annual Inputs



## Problems. Unbuffered row crops...

1. Require intense annual maintenance adjacent to surface water.
2. Reduce water quality and aquatic life due to erosion, nutrients, growth hormones, and antibiotics.
3. Reduce diverse terrestrial wildlife habitat.
4. Sequester limited carbon belowground.



## Solutions. Prairie buffers...

1. Require little or no annual maintenance once established.
2. Clean water by reducing erosion and absorbing contaminants.
3. Provide diverse habitat for non-game and game species.
4. Sequester significant carbon belowground and replenish depleted soils.