

>>> AUGUST 20, 2025

# MANURE FIELD DAY

Low-disturbance manure injection (LDMI) is a method of applying manure directly into the soil profile with minimal disruption to reduce nutrient loss, control odors, and improve soil health. Injecting manure is one of the best ways to minimize phosphorus stratification, which happens when concentrations of phosphorus accumulate at the top of the soil profile. LDMI injects manure into the root zone where it can be utilized by the growing crop, decreasing the chances of accumulation.

Thank you to our event hosts:  
**Wayside Dairy**  
**Seven Rivers Soil Cooperative, Inc.**  
**Fox Demo Farms**



## ZIMMERMAN RED VIPER

- Optimal capacity: 12,000 gallons/acre
- Shank style applicator & can convert to coulter style
- Penetrates deeper, but potential to pull stones
- Can swivel at turns - ability to stay in the ground on headlands
- Application depth: 4-7"

## BAZOOKA FARMSTAR

- One of the earliest versions of low-disturbance equipment
- Optimal capacity: 12,000 gallons/acre
- Coulter type system
- Coulter system - ability to roll over stones instead of pulling them out
- Application depth: 4-7"



## PUCK TORSION FLEX TOOLBAR

- Optimal capacity: 12,000 gallons/acre
- Shank-style applicator
- Multiple coulter-style options available (smooth or curvy)
- Spacing comes in 24" and 30" configurations
- Application depth: 4-7"



## RAIN360

- Applies water and/or manure to growing corn
- Uses RTK (Real-Time Kinematic) system to self-guide
- Capacity to apply 2 million gallons over a week

## OXBO

- Capacity to hold up to 6,000 gallons of manure
- Large flotation tires have larger footprint, minimizing compaction
- Ability to load itself from portable & not portable loading station
- Application depth: 2-5"



- Ground moisture: too wet & manure will bubble out of trenches
- Straight blades minimize soil disturbance, but usually requires lower gallon amount
- Slower speeds allow toolbar to open ground and cover back up gently. Too fast and soil disturbance will be higher

Product of Fox Demo Farms