

# Staying Positive Establishing, Maintaining Soil-Protecting Waterways

*Marion Calmer*

*Farmer/Owner - 39 years*

*Calmer Ag Research - 29 years*

*Calmer Corn Heads - 19 years*







# AGENDA

- **Waterway Failures**
- **Rebuilding of Waterways**
- **Seeding Mixes and Rates**



















**pH 7.4**

**P-207**

**K-363**

**OM-5.3%**









# Causes of Waterway Failures







10/2010  
NFS DATE 10/2010

**Roundup**  
**POWERMAX**  
HERBICIDE

**CROPSHIELD**  
Specially formulated  
for Roundup Ready® crops

Fluorfenac for Roundup-Ready Crops.  
Effective broad-spectrum herbicide for control of  
broadleaf weeds and grasses. Roundup-Ready  
crops are tolerant to Roundup-Ready crops.  
Specially formulated herbicide for control  
of broadleaf weeds and grasses.  
Specially formulated herbicide for control  
of broadleaf weeds.

AVOID CONTACT OF HERBICIDE WITH PELLETS, GREEN STRAW,  
EXPOSED NON-WOODY TWIGGS OR BRUSH. DO NOT EXCEPT  
AL APPLICATOR FOR INDIVIDUAL ROUNDUP READY CROPS.  
EXCESSIVE PLANTS AND TWIGG BRUSH BEING BURNED OR  
DISTRIBUTION MAY RESULT.

Keep out of reach of children.  
**CAUTION!** Read directions on side panel.  
Read the entire label before using this product. Use only according  
to label directions. Read the LIMIT OF WARRANTY and CLAIM BY  
statement before buying or using. If terms are not acceptable, return  
at once unopened.

**ACTIVE INGREDIENTS:**  
Glyphosate, 9-(cyclohexylmethyl)phosphonic acid, 4-oxo-3-  
trifluoromethyl-5-[(4-chlorophenyl)phosphoryl]butanoic acid  
OTHER INGREDIENTS 48.1%  
TOTAL 52.1%  
Contains 90% glyphosate per liter or 3.3 pounds per U.S. gallon of the  
active ingredient glyphosate. In the form of 45 percent salt  
equivalent to 3.6 grams per liter or 4.1 pounds per U.S. gallon of  
the acid glyphosate.  
This product is formulated for U.S. Public Law 480 (205, 48) 37-308  
and 3-200-001. Other Patent Pending. No Roundup Ready crops  
are Roundup-Ready.  
THIS IS AN END-USE PRODUCT. ROUNDUP DOES NOT ENTER  
AND HAS NOT REGISTERED IT FOR INFORMATION ON  
REPACKAGING.

NET 2.5 GAL

WERNER









**1975 - 1985**





# Planting Around A Waterway















A

N

A

D

A

Lake Nipigon

Ontario

Quebec

Lake Superior

St. Lawrence

Wisconsin

Lake Huron

Lake Ontario

Lake Michigan

New York

Michigan

Lake Erie

Pennsylvania

Iowa

Ohio

MD



# 1993





# How Do We Fix, *and* When Do We Fix?





A photograph of a cornfield. The foreground and middle ground are filled with corn stalks that have turned a golden-brown color, indicating they are mature and have dried. Some stalks are still standing upright, while others are lying on the ground. In the background, there is a dense area of green corn plants, suggesting a transition between different stages of growth or a different variety. The overall scene is a typical agricultural landscape.

**Floating Corn Stalks**













2350

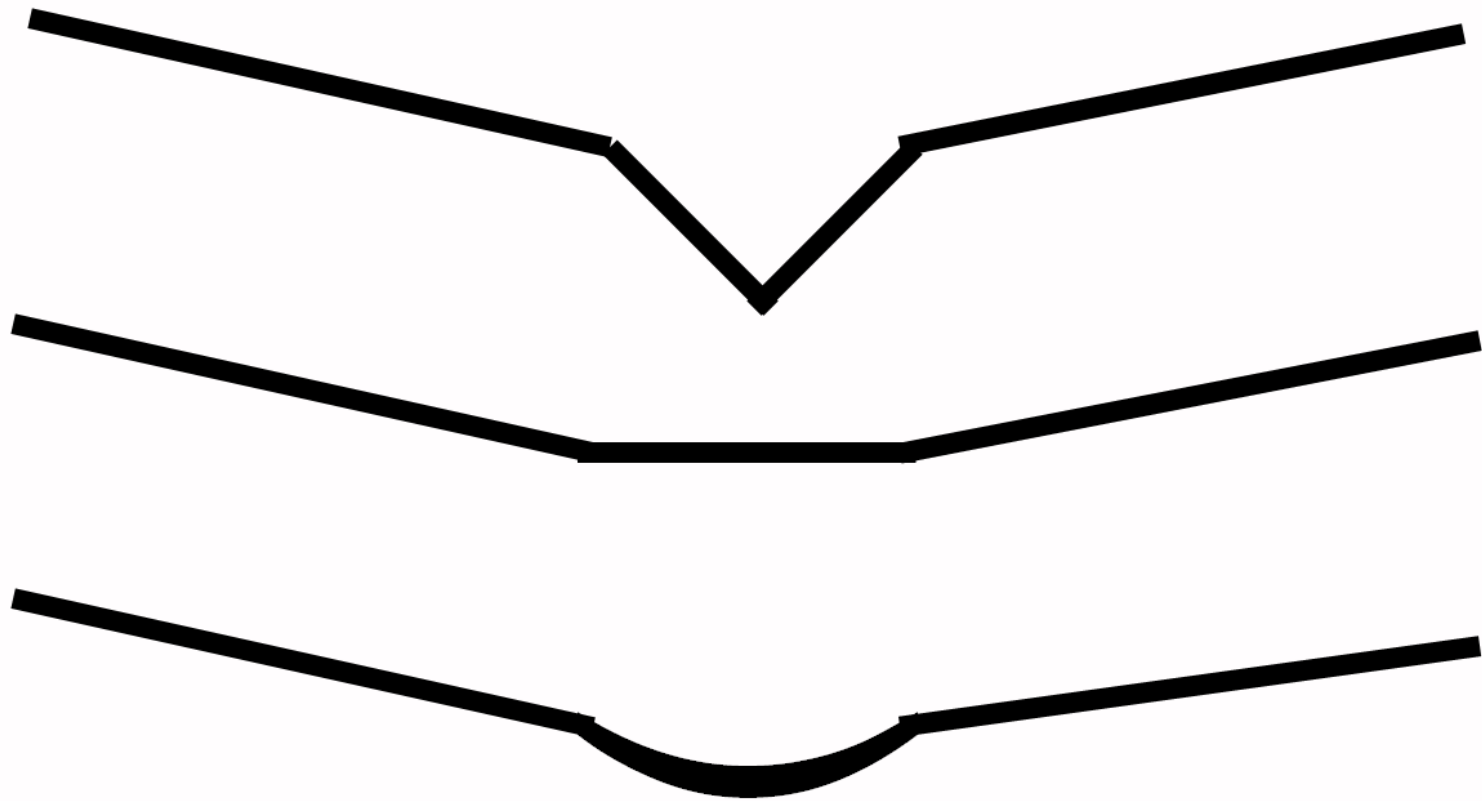
WEST ENDORS  
*Landscaper*  
SUNAMIA, IOWA







# “V” shape vs “” shape





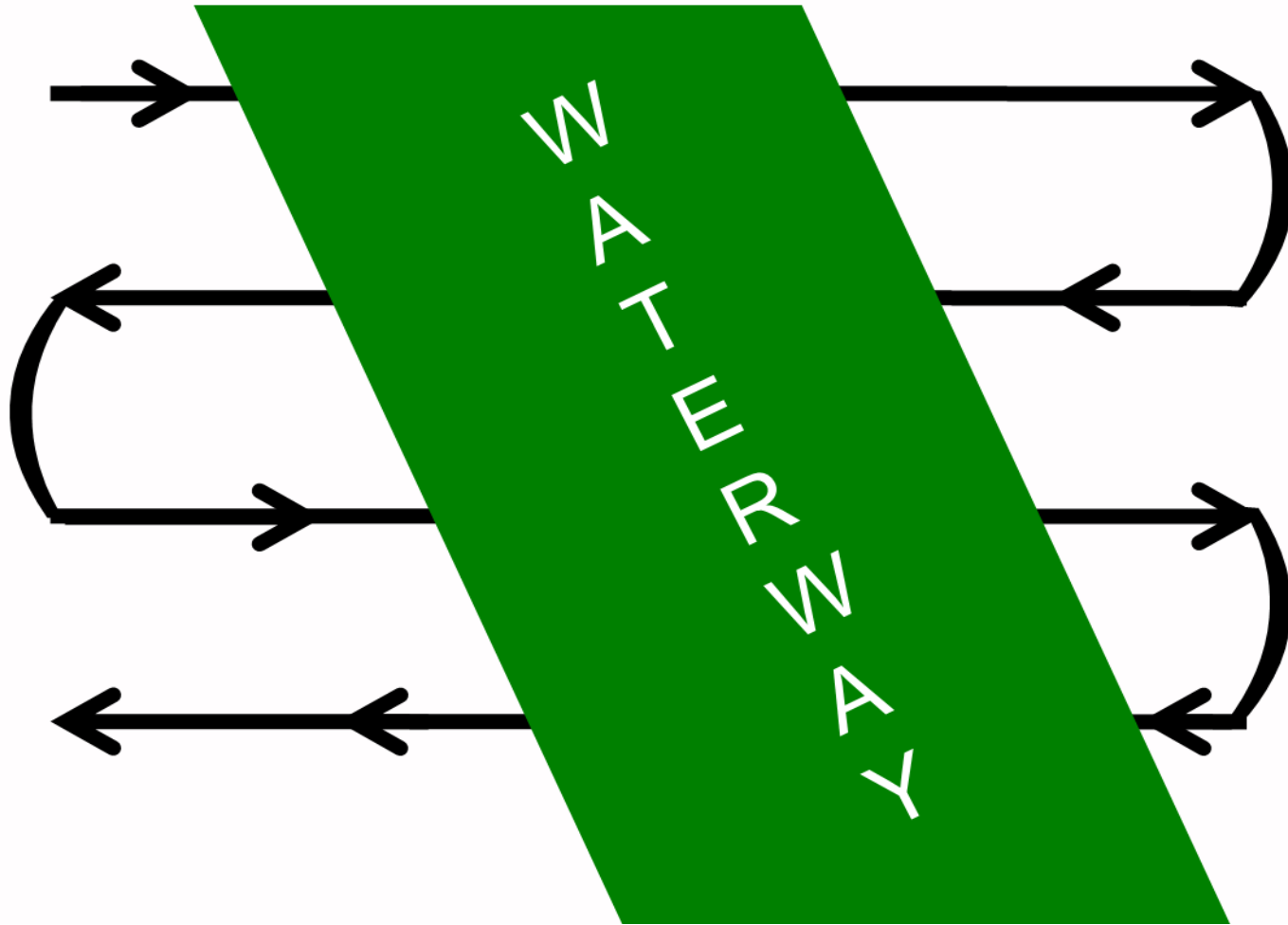
# WATERWAY REPAIR AGENDA

1. Pan Scrape
2. Field Cultivate
3. Box Scrape
4. **Field Cultivate w/ Rows**





# Field Farmed East and West





# **WATERWAY REPAIR AGENDA**

1. Pan Scrape
2. Field Cultivate
3. Box Scrape
4. Field Cultivate w/Rows
5. Sow Grass Seed
- 6. Mulch and Harrow @ 90 degree to waterway**









**16' x 562' = \$390**

***Nancy's Blankets 740-845-1129***



# **Waterway Mix**

**70% Tall Fescue**

**20% Brome**

**10% Annual Rye Grass (quick cover)**

**@ 25#/ac**

## **Carrier**

**150# Map (17 - 78 - 0)**

**1 bu / ac Oats**











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