

### Size OF PRIZE

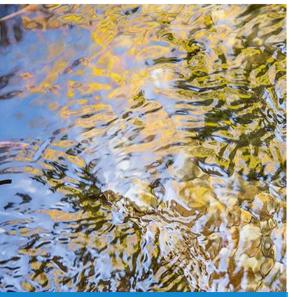
# 25 million

metric tons of greenhouse gas emissions mitigated



## 116 million

metric tons of soil erosion eliminated





# 344 million

pounds of nutrient loss to the environment reduced



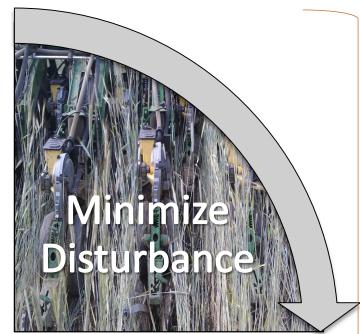
# 3.6 million

acre-feet of available water capacity in cropland soils

**Feed** 

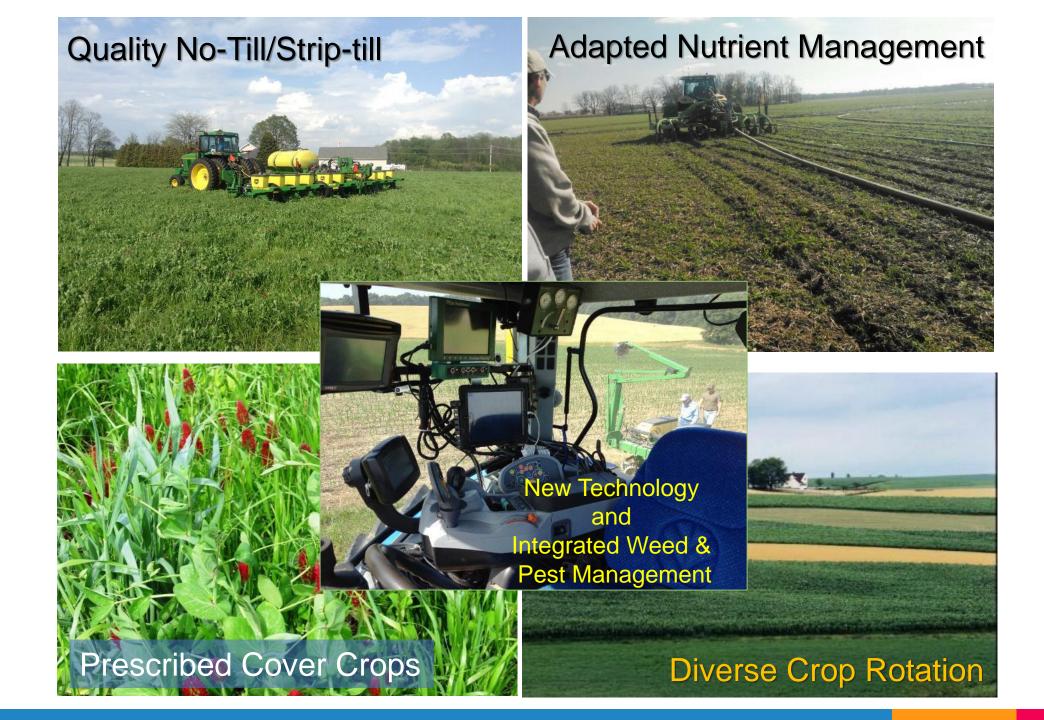








### **Protect**



### Quality No-Till / Strip Till





#### **Cover Crop Chart**



### Cover Crops

- -Species
  Selection
- -Seeding
- -Termination



#### GROWTH CYCLE

A = Annual

B = Biennial

P = Perennial

#### PLANT ARCHITECTURE

 $\gamma$  = Upright

# = Upright-Spreading

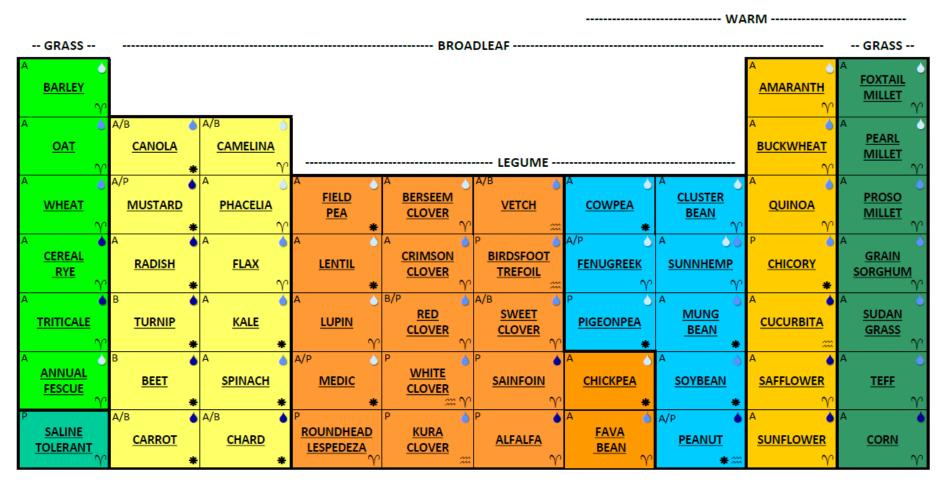
≈ = Prostrate

#### **RELATIVE WATER USE**

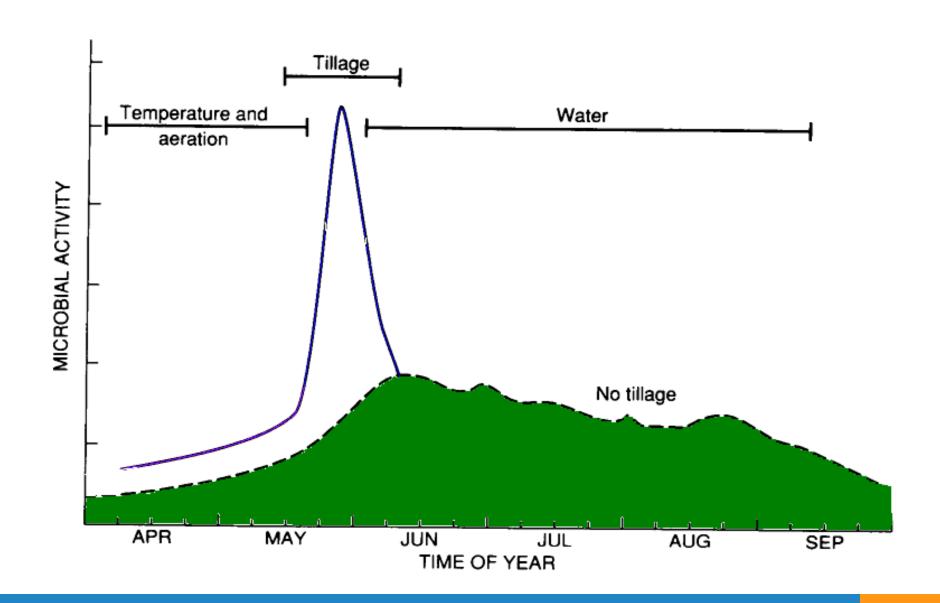
= Low

= Medium

• = High



### Adaptive Nutrient Management



### Adaptive Nutrient Management

Material	C:N Ratio		
Rye Straw	82:1		
Wheat Straw	80:1	Soybean	
Oat Straw	70:1	oyk	
Corn Stover	57:1		
Rye Cover Crop (Anthesis)	37:1	Good for	
Rye Cover Crop (Vegetative)	26:1	000	
Mature Legumes	25:1		
<b>Balanced Microbial Diet</b>	24:1		
Daikon Radish	19:1		
Crimson Clover	17:1	Corn	
Ryegrass (Vegetative)	15:1	_ <u>ç</u>	
Young Alfalfa	13:1	9 10	
Hairy Vetch Cover Crop	11:1	Good for	
Soil Microbes (Average)	8:1	<b>U</b>	



### IL Levers: Trainings, Networks

(Practices, Advisors)

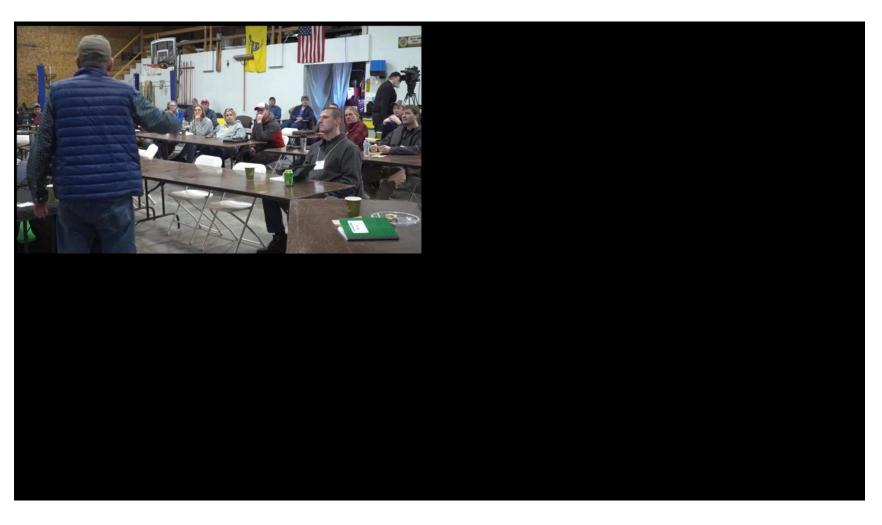
Barriers addressed: Technical assistance providers currently lack in-depth knowledge on soil health, drainage practices



ReGeneratelL

**IDEA Farm Network** 

ideas, experience, community



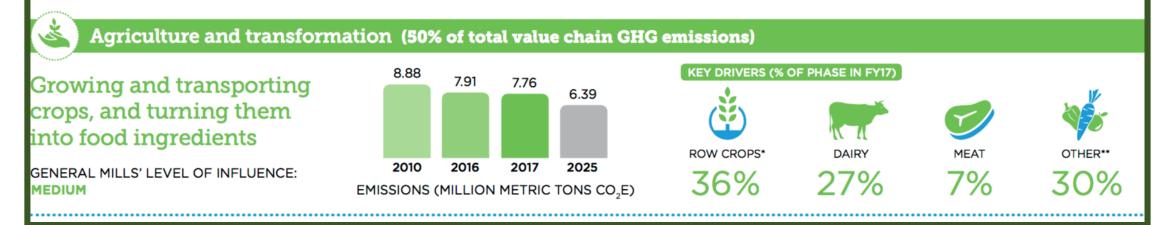
### Supply Chain: Soil Health, Corporate Climate Goals



# GENERAL MILLS AIMS TO DRIVE REGENERATIVE AGRICULTURE ON 1 MILLION ACRES BY 2030

GM'S SUSTAINABILITY OFFICER SAYS TRAINING, PROGRAMS WILL BOOST SOIL HEALTH AND ECONOMIC RESILIENCE.

By Bill Spiegel 3/4/2019



### Non-Operating Landowners: Lease Addendums

Barriers addressed: template language makes it easy for owners to require conservation, begins conversation, neutral



- Conservation Habitat
- NutrientManagement
- Soil Health and Conservation

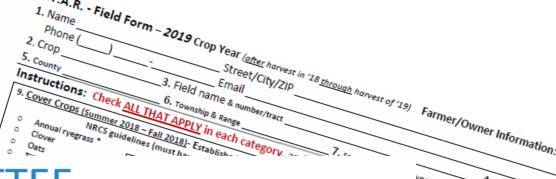


https://farmdoc.illinois.edu/ agricultural-law



### Non-Operating Landowners:

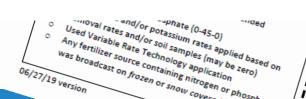
Barriers addressed: robust science creates a simple roadmap for pro



#### S.T.A.R SCIENCE ADVISORY COMMITTEE

- · Dan Schaefer, Director of Nutrient Stewardship | Illinois Fertilizer and Chemical Association
- Lowell Gentry, Principal Research Specialist in Agriculture | University of Illinois Natural Resources and Sciences
- · Doug Gucker, Extension Educator, Local Food Systems and Small Farms | University of Illinois Extension
- Dr. Emily Bruner, Midwest Conservation and Stewardship Program Manager | American Farmland Trust
- Eric Miller | Piatt County farmer and SWCD Board Member
- Dr. Emerson Nafziger, Professor Emeritus | College of ACES, University of Illinois
- Brett Roberts, State Conservation Agronomist | Illinois Natural Resources Conservation Service
- Erin Bush, Resource Conservationist | Champaign County Soil and Water Conservation District
- Joe Rothermel, Chair and Farmer | Champaign County Soil and Water Conservation District

www.starfreetool.com



Enrolled in a Federal, State, or Local Conservation Program

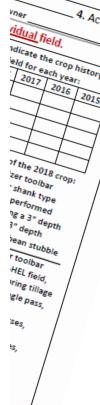
correct.

CCA advisement management meeting/field day

Enrolled in a Federal, State, or Local Conservation Program

correct.

Signs.



### Public Policy:

Barriers addressed: institutional support for ag systems that provide external benefits

Illinois: Fully funded SWCDs Crop Insurance Reward

Federal: AGree Coalition Farm Bill

