NCSRP Soybean Producer Survey

Overview

This survey is intended to collect information pertaining to field characteristics and production/yield from soybean fields in the Midwest United States. The survey is broken down into sections, and we ask that you provide as much information as possible. Results from this survey, coupled with environmental variables will be used to analyze and model productivity at a farm-specific scale. All Data Collected for This Survey Are Confidential and Anonymous. ***Unless Otherwise Specified, All Questions are Pertaining to the 2022 Season****.*

- Once you have completed the survey, please return it by mail using the provided return envelope.
- If you need assistance or have any questions about this, please contact Patrick Copeland by phone (513-280-7885) or email copel113@msu.edu or Manni Singh msingh@msu.edu
- If you would rather complete this survey online, use this link: https://arcg.is/1anP4r or by using the QR code.

General Information

Name:_____ Date:_____

Email:_____ Phone:_____

Field Location: Lat. _____ Lon. _____

Field size (acres):_____ Average Soybean Yield (bu/acre):_____

Field Information

Predominant Soil Type

☐ Silt loam
☐ Silty clay
☐ Loam
☐ Sand
☐ Sandy loam
☐ Silty Clay Loam
☐ Other_____

Is Your Field Irrigated? ☐ Yes ☐ No

Number of irrigation applications:_____

Total Irrigation Inches: _____

Drainage Type: ☐ Artificial ☐None

Tillage Type:

☐ Conventional (Chisel, Disk)
☐ Vertical: Disk
☐ Ridge
☐ Field Cultivator
☐ Strip Till
☐ No-Till

Last Tillage Pass in 2022: ☐ Fall ☐ Spring

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Do You Use Cover Crops? ☐ Yes ☐ No

List cover crops planted in 2022:_____

CC Planting Date:_____ CC Termination Date:_____

Manure Application* ☐ Yes ☐ No

Manure Type: ☐ Liquid ☐ Bed Pack

Manure Source: ☐ Dairy ☐ Hog ☐ Poultry ☐ Other

Manure Rate (Gallons/Acre or Pound/Acre):_____

Lime Application ☐ Yes ☐ No

Type of Lime Applied: ☐ Pelletized ☐AgLime ☐Other

Rate of Lime Application (pounds/acre)?_____

What was the Cost Per Pound ($/pound)? _____

Residue Management: ☐ Removed ☐ Grazed ☐ No/None ☐Other

Occurrence of Soybean Cyst Nematode: ☐ Yes ☐ No ☐ Do not know

Unique Field Characteristics (choose all that apply):

☐ Low/High spots ☐ Flooding ☐ Dry Knoll/Knob ☐ Near Woodland
☐ None ☐ Other_____

Seed Information

Seed Variety Name: _____ Maturity Group: _____

Trait:

- ☐ Conventional
- ☐ RR2X (dicamba/glyphosate)
- ☐ GT, RR1, or RR2Y (glyphosate)
- ☐ XF (dicamba/glufosinate/glyphosate)
- ☐ E3 (glufosinate/glyphosate/2,4-D)
- ☐ LLGT27 (glufosinate/glyphosate/isoxaflutole)
- ☐ Other _____

Planting Date: _____ Harvest Date:_____

Seeding Rate (Seeds/Acre)?_____ Row Spacing (Inches):_____

Cost Per 140,000 Seeds (unit): _____

Did You Use Treated Seed: ☐ Yes ☐ No

What was the Brand and Mode? (F=Fungicide, I=Insecticide, N=Nematide, B=Biological) *Example: Acceleron Basic (F)*

_____

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Fertilizer Information

Did You Use a Non-Starter Fertilizer? ☐ Yes ☐ No

Non-Starter Fertilizer 1 After Prior Crop_____
Specify Formula (N-P-K-S-Zn)
Non-Starter Fertilizer 1 Rate (lb/acre)_____

Non-Starter Fertilizer 1 Cost ($/ton)_____

Non-Starter Fertilizer 2 After Prior Crop_____
Specify Formula (N-P-K-S-Zn)
Non-Starter Fertilizer 2 Rate (lb/acre)_____

Non-Starter Fertilizer 2 Cost ($/ton)_____

Did You Use a Starter Fertilizer? ☐ Yes ☐ No

Starter Fertilizer 1 *Specify Formula (N-P-K-S-Zn)* _____

Starter Fertilizer 1 Rate (lb/acre): _____

Starter Fertilizer 1 Cost ($/ton): _____

Starter Fertilizer 2 *Specify Formula (N-P-K-S-Zn)*: _____

Starter Fertilizer 2 Rate (lb/acre): _____

Starter Fertilizer 2 Cost ($/ton): _____

Pesticide Information

Did you Apply a Pre-Emergence or Post-Emergence Herbicide?: ☐ Yes ☐ No

How many herbicide passes did you spray in this SOYBEAN field in 2022? Select the response that best applies.

☐ Pre Only (1 Pass)
☐ Post Only (1 Pass)
☐ Pre followed by Post (2 Passes)
☐ Pre followed by Post with Layered Residual (2 Passes)
☐ Post followed by Post (2 Passes)
☐ Post with Layered Residual followed by Post (2 Passes)
☐ Post with Layered Residual followed by Post with Layered Residual (2 Passes)
☐ Pre followed by Two Post Applications (3 Passes)
☐ Pre followed by Two Post Applications with Layered Residual (3 Passes)
☐ Other

What Percentage of the SOYBEAN Acres in this Field Were Sprayed by a Custom Applicator in 2022? *Specify 0-100*_____

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Did You Apply a Fungicide? ☐ Yes ☐ No

Which Fungicide Did You Apply? (Application 1): _____

Timing of Application: ☐ Vegetative ☐ R1 ☐ R3 ☐ R5

Which Fungicide Did You Apply? (Application 2): _____

Timing of Application: ☐ Vegetative ☐ R1 ☐ R3 ☐ R5

Did You Apply an Insecticide? ☐ Yes ☐ No

Which Insecticide Did You Apply? (Application 1): _____

Timing of Application: ☐ Vegetative ☐ R1 ☐ R3 ☐ R5

Which Insecticide Did You Apply? (Application 2): _____

Timing of Application: ☐ Vegetative ☐ R1 ☐ R3 ☐ R5

Production Stressors

Please rate the overall importance of the specific biological and non-biological stressors. Explanations of categories:

Minor: Some damage/presence in the field or in isolated spots but did not lead to a major reduction in yield.
Major: Significant damage/presence across the field which has led to major yield reduction.
Minor and Major: Several stressors were present which could be classified in both categories.
After selecting the category, please indicate the specific stressor.

Weeds: ☐ N/A ☐ Minor ☐ Major ☐ Minor and Major

- ☐ Burdock
- ☐ Common Vetch
- ☐ Curly Dock
- ☐ Dandelion
- ☐ Henbit Dead, Nettle
- ☐ Lambs Quarter
- ☐ Marestail Horseweed
- ☐ Purslane, Ragweed
- ☐ Red Root Pigweed
- ☐ Thistle, Velvetleaf
- ☐ Wild Mustard
- ☐ Waterhemp
- ☐ Palmer Amaranth
- ☐ Dogbane
- ☐ Other Weeds_____

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Foliar Disease: ☐ N/A ☐ Minor ☐ Major ☐ Minor and Major

- ☐ Brown Spot/Septoria Leaf Spot
- ☐ Frogeye leaf Spot
- ☐ Powdery Mildew
- ☐ Other Foliar Diseases_____

Root/Stem Diseases: ☐ N/A ☐ Minor ☐ Major ☐ Minor and Major

- ☐ Brown Stem Rot
- ☐ Charcoal Rot
- ☐ Seedling Disease/Root Rot
- ☐ Sudden Death Syndrome
- ☐ Stem Canker
- ☐ White Mold
- ☐ Other Root/Stem Diseases _____

Insects: ☐ N/A ☐ Minor ☐ Major ☐ Minor and Major

- ☐ Bean Leaf Beetles
- ☐ Grasshoppers
- ☐ Green Cloverworms
- ☐ Japanese Beetles
- ☐ Mexican Bean Beetle
- ☐ Silver-Spotted Skipper
- ☐ Soybean Aphid
- ☐ Stink Bugs
- ☐ Soybean Gall Midge
- ☐ Other_____

Please Rate NON-BIOLOGICAL Crop Stressors

	Not Observed	Minor	Major
Lodging	☐	☐	☐
Excess Rain	☐	☐	☐
Drought	☐	☐	☐
Frost	☐	☐	☐
Hail	☐	☐	☐
Phytotoxicity	☐	☐	☐
Stand	☐	☐	☐
Planting	☐	☐	☐
Emergence	☐	☐	☐

Note. Phytotoxixity: adverse effects on plant growth, physiology, or metabolism caused by a chemical substance, such as high levels of fertilizers, herbicides, heavy metals, or nanoparticles (e.g., drift of herbicide from neighboring crops and similar)

Crop History Information

Previous Crop 2021: _____

Previous Crop 2020: _____

Previous Crop 2019: _____

Previous Crop 2018: _____