

# 2023 Row Crops Fertilizer Application Practices & Technology Survey

1. In which county (or counties) do you farm?

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2. How many total acres do you farm?

- a) ≤500      b) 501-1000      c) 1001-2001      d) 2001 - 3000      e) 3001 - 5000      f) >5000

3. Please select all row crops that you grow on your farm?

- a) Corn      b) Cotton      c) Peanut      d) Soybean      e) Other \_\_\_\_\_

3. Where do you receive information about fertilizer application practices or technology? (select all that apply)

- a) Agriculture Industry      (b) Consultant/Salesperson      (c) University Extension  
d) Internet/Online Media      (e) Magazines or other print media      (f) Other (please specify) \_\_\_\_\_

4. Who takes soil samples in your fields?

- a) I do or my employee      b) Crop Consultant      (c) Fertilizer retailer/Coop  
d) Soil Laboratory      e) Precision Ag company      f) Other: \_\_\_\_\_

5. Which soil sampling method do you (or whoever takes your soil samples) currently use on your farm?

- a) Composite sampling - one to two samples per field  
b) Random locations within the field based on knowledge/history (no grids or computer-generated zones)  
c) Grid sampling (uniform size grids)  
d) Zone Sampling (management zones)  
e) Other (please specify): \_\_\_\_\_

6. If you use grid sampling, what size grids do you use?

- a) 1 ac      b) 2.5 ac      c) 5 ac      d) 10 ac      e) Other (please specify) \_\_\_\_\_

7. If you use zone sampling, what is your preferred method for creating the zones? (select all that apply)

- a) Knowledge of field      (b) Aerial imagery      (c) Soil type maps      (d) Elevation data  
e) Soil EC      (f) Yield maps      (g) Two or more data layers combined \_\_\_\_\_

8. What is your target depth for a soil sample core?

- a) 6"      b) 8"      c) 10"      d) Other (please specify) \_\_\_\_\_

9. How many soil cores do you collect for one composite sample (or within each grid/zone)?

- a) 4-5      b) 6-7      c) 8-9      d) 10+      e) Other (please specify) \_\_\_\_\_

10. How often do you soil sample in your fields?

- a) Every year      b) Every 2 yrs      c) Every 3 yrs      d) Other (please specify) \_\_\_\_\_

11. Who applies your fertilizer?

- a) I do my own fertilizer applications  
b) Custom applicator/Fertilizer retailer  
c) I do some and also use custom applicator

12. What is your (or custom applicator's) nominal spread width for fertilizer applications with broadcast spinner spreader in your fields? (please specify for granular fertilizer only)

- a) 36 ft or less      b) 37 – 50 ft      c) 51 – 60 ft      d) 61 – 70 ft      e) More than 70 ft

13. What is your (or custom applicator's) average ground speed for applying fertilizer with spinner spreader?

- a) 0 – 5 mph      b) 6 – 10 mph      c) 11 – 15 mph      d) 16 – 20 mph      e) 21+ mph

**14. How do you fertilize by yield goal in your fields?**

- a) Single yield goal for whole field      b) Multiple yield goals within the field      c) Other \_\_\_\_\_

**15. Please select all nutrients that you do split applications in your fields? (select all that apply)**

- a) Lime      b) Nitrogen      c) Potassium      d) Phosphorus      e) Other (Please specify) \_\_\_\_\_

**16. Do you do variable-rate fertilizer applications in your fields?**  Yes (Select all that apply)       No

- a) Lime      b) Nitrogen      c) Potassium      d) Phosphorus      e) Other (Please specify) \_\_\_\_\_

**17. If you do variable-rate applications, how do you create (or who creates) your fertilizer prescription maps?**

- a) Ag Data Management Software      b) Crop consultant      c) Fertilizer retailer/coop  
d) Soils Laboratory      e) Precision ag company      e) f) Other: \_\_\_\_\_

**18. How many rates, on average, do you normally apply during variable-rate fertilizer applications in your fields?**

- a) 2 – 3      b) 4 – 5      c) 6 or more      d) As many as possible based on variability      e) Not applicable

**19. Who performs variable-rate fertilizer applications in your fields? (select all that apply)**

- a) I do or my employee      (b) Fertilizer retailer/Coop      (c) Other \_\_\_\_\_      (d) Not applicable

**20. Is your own fertilizer applicator equipped with variable-rate technology (GPS and rate controller)?**

- a) Yes      b) No      c) I have GPS but no rate controller      d) Not applicable

**21. How do you determine if the target fertilizer rate was applied in the fields? (select all that apply)**

- a) Rough estimation (acre counters and tender weights)  
b) As-applied maps from the fertilizer applicator  
c) Ag Data Management Software (e.g. John Deere Ops Center, FieldView, etc.)  
d) Other (please specify) \_\_\_\_\_

**22. How do you log and manage fertilizer records (products and rates applied by field) on your farm?**

- a) I write down all my fertilizer records on a notepad or diary  
b) I use a Smartphone app on my phone or tablet/iPad  
c) I use a program (e.g. MS Excel, etc.) on my computer  
d) My spreader display/computer saves it and I can access them on my iPad/Tablet/Computer any time

**23. Do you utilize any other advanced application equipment, practices or technologies on your farm? (select all that apply)**

- a) Dual or multi-bin spreader (e.g. two bins for different products)  
b) Pneumatic boom spreader (e.g. AGCO AirMax 180)  
c) Technology for precision liquid fertilizer application (e.g. 360 Y-drop)  
d) In-season aerial imagery for site-specific fertilizer application (e.g. variable-rate N application)  
e) Other (please specify) \_\_\_\_\_

**24. What is your biggest challenge related to soil sampling and/or fertilizer applications on your farm?**

Answer: \_\_\_\_\_  
\_\_\_\_\_

**25. What do you see as the biggest advantage of utilizing precision fertilizer application practices or technologies?**

Answer: \_\_\_\_\_

**26. What precision soil sampling or fertilizer application technology research do you like to see the University of Georgia conduct that can help address your concerns or improve your fertilizer application accuracy/efficiency?**

Answer: \_\_\_\_\_