

## CALL FOR PAPERS Arkansas Soybean Research Studes 2023 DEADLINE: April 1, 2024

To: Faculty working in Soybean

The Arkansas Soybean Promotion Board would like to invite anyone with a soybeanrelated project to submit a paper for the 2023 Soybean Research Series. The series is a citable resource and serves as a yearly report of soybean related research projects funded by the Arkansas Soybean Promotion Board. *Everyone that received funding from the Arkansas Soybean Promotion Board for research conducted during 2023 is required to submit an article to the Soybean Research Series.* The deadline for submitting a report for the Soybean Research Series 2023 Publication will be April 1, 2024. You may also submit your reports early.

Please read and follow the instructions provided in the *Guidelines for Research Series Publications* on the following pages. A preformatted template is attached.

<u>The deadline for submitting your report(s) for the Arkansas Soybean Research Studies</u> <u>will be April 1, 2024.</u> The reports should be uploaded following specific instructions under Uploading Report Files below.

Applied research, from 2023, pertaining to all areas of soybean production, pest management breeding, post-harvest studies, and quality studies are acceptable. Priority will be given to projects funded by the Arkansas Soybean Promotion Board. Keep in mind the audience for this series is the Soybean Promotion Board and the soybean farmer as a report of how their check-off dollars are being spent.

In addition to the general acknowledgments guidelines below, please include a statement to the effect of: "Support provided by Arkansas soybean producers through check-off funds administered by the Arkansas Soybean Promotion Board."

# For technical subject matter questions, contact:

Dr. Jeremy Ross, Extension Agronomist Crop, Soil & Environmental Science Little Rock, Arkansas, 72204 (501) 944-0621 jross@uada.edu

# For formatting, editing, style issues, contact:

Susan Scott Crop, Soil & Environmental Science Little Rock, Arkansas, 72204 (501) 743-9401 <u>sscott@uada.edu</u>

Thank you,

Dr. Jeremy Ross Faculty Editor **ALTERNATIVE TEXT REQUIREMENT:** Please provide alternative text (alt text) for each figure and table at the end of the document. Alt text needs to provide different information than that already given in the text. The goal is to describe figures and tables for a person who can't see them, e.g., what are the table headings, the *x*- and *y*-axes labels, the type of graph, etc. Try to convey the main takeaway and what the figure or table is conveying. Alt text is required to help us meet federal accessibility rules. For more information on providing alternative text, please visit the Division of Agriculture's accessibility page and Appendix B for examples.

### **Report Expectations**

Submitted reports should be thorough and of high quality. Reports not meeting the quality expectations outlined in the following document will be returned to the author for further editing. A good report should:

- Clearly communicate the reasons for the research.
- Provide a complete description of materials and methods (field procedures, measurements, statistical analyses, etc.).
- Accurately describe the results.
- Communicate the practical nature of the results.
- Be reviewed by the co-authors.

### **Report Organization**

### Title

**Authors with affiliations** are listed after the title, with footnote superscripts for each author that correspond to their position and rank/title, department, and location. Example:

M.E. Fogleman,<sup>1</sup> J.K. Norsworthy,<sup>1</sup> Z.D. Lancaster,<sup>1</sup> and R.C. Scott<sup>2</sup>

- <sup>1</sup> Graduate Assistant, Distinguished Professor, and Graduate Assistant, respectively,
- Department of Crop, Soil, and Environmental Sciences, Fayetteville.
- <sup>2</sup> Professor, Department of Crop, Soil, and Environmental Sciences, Lonoke.

Abstract (300-word limit) Introduction Procedures

## Results and Discussion

### Practical Applications

### Acknowledgments

Acknowledge all funding sources, as well as the University of Arkansas System Division of Agriculture. Please see Appendix A for an explanation of required acknowledgments for Division work funded by any USDA agency and/or NIFA Capacity Grant.

### Literature Cited Include Tables at the end, and provide figures in separate files

Guidelines for Research Series Publications | Arkansas Agricultural Experiment Station

### Naming Files

Name report files as follows:

*lastname*.docx | (e.g., Norman.docx).

If submitting more than one manuscript, add numbers following your name (e.g., Norman#1.docx, Norman#2.docx, etc.).

### Uploading Report Files

Upload documents for each report on the <u>Arkansas Soybean Promotion Board Proposals and Grants</u> <u>page</u>. Select the "Upload Documents Now" button for the Arkansas Soybean Research Studies.

Email Dianne Saffire (<u>saffire@uark.edu</u>) with questions about uploading documents.

### Body Text Format

At the top right corner of page 1, include information for the corresponding author:

Name Title/rank Department Email address Phone number

This will be the ONLY corresponding author throughout the process. The final text proof of your submission will be emailed to this address.

- 1. Use Microsoft Word, 8.5 x 11-in. document.
- 2. One-inch margins (top, bottom, left, and right).
- 3. Font: 12-pt Times New Roman for body text.
- 4. Double-spaced.
- 5. Number pages at the bottom of the page.
- 6. Indent paragraphs using tabs (not spaces).
- 7. Use only one (1) space after all punctuation (periods, colons, etc.).
- 8. Use spell check. We recommend a Grammarly.com account for a more rigorous spell check. You can sign up for free and don't need to install anything on your computer. Simply upload or copy and paste your text into the browser-based Grammarly editor to perform a thorough spelling and grammar review.
- 9. Approximate length: six (6) pages, double-spaced text, plus four (4) pages of tables/figures. If more space is needed, contact the editors of the publication.
- 10. Footnotes: Use numbers (1,2,3) for text footnotes. Letters (a,b,c) are for table and figure footnotes. See the Table Format section below for exceptions.

### Table Format

- 1. Construct ALL tables using Microsoft Word table formatting.
- 2. Font: 11-pt Calibri.
- 3. Format tables for a portrait page orientation (approximately 7.5-inch width) to limit the need for landscape-oriented pages. Contact the editor if a landscape-oriented table is required.
- 4. Table titles and footnotes should be included within the table's cells. This ensures the width of the table and text is consistent.
- 5. Table titles should be bolded and centered on the first row of the table.
- 6. Column headers in the top rows should be bolded.
- 7. Ruling lines should be black, ½-point weight, and solid. Place above and below column headers and at the end of tables (above footnotes). No vertical dividers or other horizontal lines are necessary.
- 8. If letters a, b, and c are used to denote significant differences in tables, please add a footnote explaining this use. In this case, symbols must be used in place of letters for footnotes. Use symbols in this order: †, ‡, §, ¶, #, ††, ‡‡, §§, ¶¶, ##, etc.
- 9. Each table should be able to stand alone (i.e., no need to reference text). Explain abbreviations in footnotes.
- 10. All tables should be placed together in order at the end of the file after the text and literature cited section.

Please refer to the examples on the following page.

Bold titles, column headings, & units.

1/2-pt ruling line borders only above and below column headers and at the bottom.

All table text is Calibri, 11-pt font.

Title is included in the top row of the table.

#### Table 9. The percentage of sampled acres as distributed within five soil-test levels and median Mehlich-3 extractable magnesium (Mg) by geographic area for soil samples submitted to the University of Arkansas System Division of Agriculture's Soil Testing and Research Laboratory in Marianna from 1 January 2017 through 31 December 2017.

| Mehlich-3 soil Mg <sup>a</sup> (ppm) |   |                     |   |                                |   |  |  |  |  |
|--------------------------------------|---|---------------------|---|--------------------------------|---|--|--|--|--|
| <31                                  | 31–50   | 51–140              | 141–500   | >500                           | Mdb   |  |  |  |  |
|                                      | (% 0  | f sampled a         | acreage)  |                                | (ppm)   |  |  |  |  |
| 1                                    | 3   | 48                  | 44  | 4                              | 135   |  |  |  |  |
| 1                                    | 7   | 44                  | 46  | 2                              | 138   |  |  |  |  |
| 3                                    | 14  | 55                  | 26  | 2                              | 95  |  |  |  |  |
| 2                                    | 7   | 57                  | 31  | 3                              | 110   |  |  |  |  |
| 1                                    | 4   | 63                  | 31  | 1                              | 111   |  |  |  |  |
| 1                                    | 2   | 31                  | 45  | 21                             | 206   |  |  |  |  |
| 4                                    | 15  | 56                  | 23  | 2                              | 89  |  |  |  |  |
| 0                                    | 1   | 28                  | 66  | 5                              | 202   |  |  |  |  |
| 0                                    | 2   | 19                  | 75  | 4                              | 240   |  |  |  |  |
| 4                                    | 7   | 36                  | 53  | 0                              | 153   |  |  |  |  |
| 2                                    | 6   | 44                  | 44  | 4                              | 148   |  |  |  |  |
| scopy (I                             | CAP) in 1:  | 10 soil volu        | me:Mehlich-   | -3 volum                       | e.  |  |  |  |  |
| /                                    | /   |                     |   |                                |   |  |  |  |  |
|                                      |   |                     |   |                                |   |  |  |  |  |
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| feetnetee Tebles about directly ave  |   |                     |   |                                |   |  |  |  |  |
| olona fr                             | om body   | or spapping columns |   |                                |   |  |  |  |  |
|                                      | <pre>&lt;31 1 1 3 2 1 1 4 0 0 4 2 scopy (IC ne abbre totes. Ta alone fre </pre> | <31         31–50   | $\begin{array}{r rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$ | <31 $31-50$ $51-140$ $141-500$ | <31       31–50       51–140       141–500       >500 |  |  |  |  |

or spanning columns.

Table 5. Effect of K-fertilization rate on corn grain yield for four trials conducted in Chicot (CHZ82), Clav (CLZ82), Lee (LEZ82), and Lonoke (LOZ82) counties during 2018.

|  | Grain yield            |                          |                           |                                    |  |  |  |  |
|--|------------------------|--------------------------|---------------------------|------------------------------------|--|--|--|--|
| K rate   | CHZ82                  | CLZ82                    | LEZ86                     | LOZ82                              |  |  |  |  |
| (lb K <sub>2</sub> O/acre)   |                        | (bu./a                   |                           |                                    |  |  |  |  |
| 0  | 110 b†                 | 141 b                    | 115                       | 178                                |  |  |  |  |
| 50   | 149 a                  | 192 a 113                |                           | 197                                |  |  |  |  |
| 100  | 160 a                  | 188 a 115                |                           | 198                                |  |  |  |  |
| 150  | - 170 a 117            |                          | 117                       | 182                                |  |  |  |  |
| 200  | 174 a_                 | 183 a 111                |                           | 196                                |  |  |  |  |
| C.V., %‡   | 9.7                    | 7.6                      | 9.2                       | 7.9                                |  |  |  |  |
| P-value  | 0.0593                 | 0.8626                   | 0.3758                    |                                    |  |  |  |  |
| <sup>†</sup> Means followed  | by the same letter are | not significantly diff   | erent at <i>P</i> = 0.10. | . \                                |  |  |  |  |
| <sup>‡</sup> C.V., Coefficient of variation.   |                        |                          |                           |                                    |  |  |  |  |
|  |                        | Significant should be in | t letters<br>the same     |                                    |  |  |  |  |
| etters a, b, and c are used to note<br>ficance, use symbols in this order:<br>‡, §, ¶, #, ††, ‡‡, §§, ¶¶, ##, etc. |                        | table cell as            | the value.                | Decimal align value<br>same column |  |  |  |  |

### Figure Format

- 1. 300 DPI minimum resolution.
- 2. Font: 11-pt Calibri for all figure text, including axes labels, legends, etc.
- 3. Change text color to black from the default gray color in Microsoft Word and Excel.
- 4. For graphs created in Word, set borders to black, ½-point solid ruling lines.
- 5. Center figure captions below each figure. Label as follows: "Fig. 1. description."
- 6. Provide original Word or Excel files for graphs created in those programs. Do not send TIFF, PDF, or JPG image files of figures created in Word or Excel.
- 7. Save figures created outside of Word or Excel (e.g., SigmaPlot) as 300 DPI high-resolution TIFF images (high-resolution JPG and PDF files are also acceptable).
- 8. Figures may use color when necessary. Choose muted colors and avoid bright, neon colors. Use a color-blind safe palette by avoiding red and green.
- 9. Papers with embedded figures will be returned and not accepted.
- 10. Format figures for a portrait page orientation (approx. 7-1/2 inch width) to limit the need for landscape-oriented pages.
- 11. If letters a, b, and c are used to denote significant differences in a figure, please explain in the figure caption (see example).
- 12. Each figure should be able to stand alone (i.e., no need to reference text). Explain abbreviations in the caption.



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### Style Issues

- 1. Abbreviations: Spell out abbreviations at first instance in Abstract AND again in the main body of the article. Example: "Rice Research Verification Program (RRVP)."
- Units: Use English units for all measurements. If necessary to indicate metric units, place them in parentheses next to English units. Common abbreviations: foot = ft, inch = in., hour = h, acre = ac, bushel = bu., etc.
- 3. In general, use numerical symbols as opposed to spelling out numbers, even "one" through "nine." Correct examples:
  - The treatment was replicated 3 times.
  - The flavor was given a rating of 3.
  - Plate waste was 3% of total intake.
- 4. In a series of three or more terms with a single conjunction, use a comma after each term except the last. Example: The American flag is red, white, and blue.

### Literature Cited Format

- 1. In-text References: Use the author/date reference system (Smith, 1991) in the text. Textual citations to multiple authors are handled as follows:
  - Two authors (Smith and Franklin, 1991);
  - Three or more authors (Smith et al., 1991).
  - If there is more than one "Smith et al., 1991," distinguish them by 1991a, 1991b, etc. according to the alphabetized listings in the literature cited section. In the text, the citation would be: (Smith et al., 1991b).
- 2. Order of Citations: Alphabetize the literature cited by the author's last name. If the author is the first author on more than one article, list first those articles on which s/he is the only author (in chronological order). Multiple author articles then follow, alphabetized by the second author's last name. If the second authors are the same as well, then go to the third author, etc. If all authors are the same, then arrange chronologically by publication date.
- 3. Literature Cited style: note that the order for the first author is the last name comes before initials, and for subsequent authors, initials are first followed by the last name.
- 4. Include access dates for web articles (all links must work properly).

### Examples:

- Shah, U., A. Proctor, J.O. Lay Jr, and K. Moon. 2012. Determination of CLA trans, trans positional isomerism in CLA-rich soy oil by GC–MS and silver ion HPLC. J. Amer. Oil Chem. Soc. 8:979-985.
- The Pew Research Center. 2014. Internet and Technology. Accessed: 8 December 2014. Available at <u>https://www.pewInternet.org/</u>

### **Required Acknowledgment of USDA Grant Funding in Publications**

As the Division receives funding support through grants from <u>any USDA agency</u> for our research and extension programs/projects, we must acknowledge such support when publishing material written or published with the grant support. Therefore, when publicizing a program/project that was supported at least in part by a USDA agency grant, we must acknowledge the USDA awarding agency support by using one of the following statements on publications written or published with grant support and, if feasible, on any publication reporting the results of, or describing, a grantsupported activity:

- "This material is based upon work that is supported by the [insert name of USDA agency that awarded grant], U.S. Department of Agriculture, under award number XXX-XXXX-XXXX." or
- "This material is based upon work that is supported, in part, by the [insert name of USDA agency that awarded grant], U.S. Department of Agriculture, under award number XXX-XXXX-XXXX."

One of the above acknowledgment statements must be included in any publication supported by USDA grant funds, depending on whether the USDA grant fully supported or partially supported the material. For purposes of this acknowledgment, "publication" means a published book, periodical, pamphlet, brochure, flyer, or similar item. It does not include any audiovisuals. For example, if a publication was written or published with partial support from a National Institute of Food and Agriculture (NIFA) grant, the publication would include the following acknowledgment statement:

• "This material is based upon work that is supported, in part, by the National Institute of Food and Agriculture, U.S. Department of Agriculture, under award number XXX-XXXX-XXXXX."

Additionally, except in papers published in scientific journals, if a publication, article, or paper is published about an Extension or Research project/program that has been supported by USDA agency grant funds, you must include the following statement:

• "Any opinions, findings, conclusions, or recommendations expressed in this publication are those of the author(s) and do not necessarily reflect the view of the U.S. Department of Agriculture."

### NIFA CAPACITY GRANTS

In addition to the above, the USDA-NIFA has also requested that publications written or published (at least in part) with NIFA capacity grants be acknowledged by use of the following language:

• "This work is/was supported, at least in part, by the USDA National Institute of Food and Agriculture, [insert project type, e.g., Hatch/Evans-Allen/McIntire Stennis] project [insert accession number]."

### <u>Example:</u>

• "Project funding was provided by Arkansas Fertilizer Tonnage Fees administered by the Soil Test Review Board and the University of Arkansas System Division of Agriculture. This work was supported, at least in part, by the USDA National Institute of Food and Agriculture, Hatch project ARK 2734."

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### **Alternative Text Examples**

| Table 2. Lint yield and ranking (R) of varieties in the 2021 Arkansas large-plot variety testing program. |        |    |          |    |               |                        |       |        |        |        |             |        |          |      |             |     |         |  |
|---|--------|----|----------|----|---------------|------------------------|-------|--------|--------|--------|-------------|--------|----------|------|-------------|-----|---------|--|
|   | Ashley |    | Ashley C |    | Desł          | <b>Desha</b> Jefferson |       | son    | Lonoke |        | Mississippi |        | Poinsett |      | St. Francis |     | Average |  |
|   | County |    | Coun     | ty | County County |                        | ty    | County |        | County |             | County |          | Rank |             |     |         |  |
|   | Lint   |    | Lint     |    | Lint          |                        | Lint  |        | Lint   |        | Lint        |        | Lint     |      | Lint        |     |         |  |
| Variety Name  | lb/ac  | R  | lb/ac    | R  | lb/ac         | R                      | lb/ac | R      | lb/ac  | R      | lb/ac       | R      | lb/ac    | R    | lb/ac       | R   |         |  |
| NG 3195 B3XF  | 1469   | 2  | 1357     | 6  | 1390          | 3                      | 1126  | 5      | 1854   | 4      | 1639        | 2      | 1905     | 1    | 1534        | 3.5 |         |  |
| PHY 411 W3FE  | 1562   | 1  | 1671     | 1  | 1460          | 1                      | 1120  | 6      | 1631   | 11     | 1659        | 1      | 1716     | 4    | 1546        | 3.6 |         |  |
| DP 2127 B3XF  | 1460   | 3  | 1320     | 9  | 1291          | 9                      | 1190  | 3      | 1915   | 2      | 1601        | 3      | 1807     | 2    | 1512        | 4.7 |         |  |
| DP 2038 B3XF  | 1425   | 4  | 1314     | 10 | 1407          | 2                      | 1281  | 1      | 1946   | 1      | 1532        | 5      | 1627     | 10   | 1505        | 4.7 |         |  |
| ST 5091 B3XF  | 1384   | 6  | 1386     | 4  | 1377          | 4                      | 1180  | 4      | 1734   | 6      | 1517        | 6      | 1642     | 7    | 1460        | 5.2 |         |  |
| ST 4993 B3XF  | 1323   | 8  | 1437     | 3  | 1335          | 6                      | 1099  | 7      | 1600   | 12     | 1569        | 4      | 1651     | 6    | 1431        | 6.6 |         |  |
| DP 1646 B2XF  | 1353   | 7  | 1362     | 5  | 1356          | 5                      | 1004  | 10     | 1858   | 3      | 1495        | 7      | 1494     | 11   | 1417        | 6.8 |         |  |
| DG 3456 B3XF  | 1242   | 12 | 1329     | 7  | 1325          | 8                      | 1247  | 2      | 1804   | 5      | 1399        | 8      | 1464     | 12   | 1401        | 7.7 |         |  |
| PHY 400 W3FE  | 1389   | 5  | 1258     | 12 | 1331          | 7                      | 1068  | 9      | 1647   | 8      | 1370        | 10     | 1716     | 3    | 1397        | 7.7 |         |  |
| DP 2020 B3XF  | 1316   | 9  | 1457     | 2  | 1199          | 12                     | 935   | 12     | 1674   | 7      | 1389        | 9      | 1636     | 9    | 1372        | 8.5 |         |  |
| DG 3644 B3XF  | 1304   | 10 | 1324     | 8  | 1234          | 11                     | 1092  | 8      | 1642   | 9      | 1280        | 12     | 1641     | 8    | 1360        | 9.4 |         |  |
| NG 4936 B3XF  | 1302   | 11 | 1307     | 11 | 1274          | 10                     | 971   | 11     | 1637   | 10     | 1302        | 11     | 1666     | 5    | 1351        | 9.9 |         |  |
| LSD <i>P</i> = 0.05   | 75.6   |    | 165.7    |    | 79.5          |                        | Not   |        | 84.5   |        | 153.2       |        | 121.2    |      |             |     |         |  |
| replicated  |        |    |          |    |               |                        |       |        |        |        |             |        |          |      |             |     |         |  |

### **Alternative Text:**

Lint yield and ranking, including average rank, of varieties in the 2021 Arkansas largeplot variety testing program for Ashley, Desha, Jefferson, Lonoke, Mississippi, Poinsett, and St. Francis counties. Variety PHY 411 W3FE was ranked number 1 in 4 counties, DP 2038 B3XF, in 2 counties, and NG 3195 B3XF, in 1 county.

Please note the difference in the level of explanation between the table title above the table and the Alt Text. Alt text should be phrased for a person that cannot see the table so that it paints a picture for them.



Fig. 1. Percent control of tarnished plant bugs in cotton for multiple insecticides in different water hardnesses, Marianna, Arkansas, 2021, 3 days after application.

### Alternative Text:

A bar graph showing percent control of tarnished plant bugs in cotton on the *y*-axis 3 days after application of the insecticides shown on the *x*-axis: Transform, Acephate, Bidrin, and Centric. The bars show treatments in soft water (blue), hard water (orange), and very hard water (gray). No differences in tarnished plant bug control were observed among treatments at 3 days after application.

<u>Please note the difference in the level of explanation between the figure caption and</u> <u>the Alt Text. Alt text should be phrased for a person that cannot see the figure so that it</u> <u>paints a picture for them.</u>