Scientific Reproducibility Survey (Google Version)

Use this survey to assess the availability of data, model, code, directions, and other digital artifacts and reproducibility of results in a scientific publication. Feel free to share the survey using this public link https://goo.gl/LPCTEz

Part 1 of the survey solicits information about the person competing the survey and the scientific publication they are assessing.

Part 2 assesses the availability of digital artifacts (data, model, code, directions, etc.) used to generate results.

Part 3 assess the reproducibility of the published results (figures, tables, etc.). A final question asks how much time it took to complete the availability and reproducibility assessments.

We will use the email address you provide to send you a copy of your responses.

You responses will be public and will be automatically posted in the following spreadsheet:
https://goo.gl/EQyxEK

For more information about the survey tool, it's use, or application of the tool to assess 360 articles published in 6 hydrology and water resources Journals in 2017, please see:

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https://github.com/jstagge/reproduc_hyd

Requested citation for this survey tool: (Stagge, J.H., Rosenberg, D.E., Abdallah, A., Akbar, A., Attallah, N., and James, R. (In review) "A survey tool to assess and improve data availability and research reproducibility." Scientific Data.)

* Required

1. **Email address** *

   _____

2. **Q1. Enter Your Name** *

   _____

3. **Q2. What is the Journal Name?** *
Mark only one oval.

- ( ) Unpublished
- ( ) Journal of Water Resources Planning and Management
- ( ) Water Resources Research
- ( ) Environmental Modeling and Software
- ( ) Journal of Hydrology
- ( ) Hydrology and Earth System Sciences (HESS)
- ( ) Journal of the American Water Resources Association (JAWRA)
- ( ) Other: _____

4. **Q3: What is the DOI of the article ?**

_____

5. **Q4: What is the paper's full citation?** *

_____

Availability

6. **Q5: How are data /model/code used in the paper accessible to users?** *
Mark only one oval.

- ( ) Some or all applicable (available, third party request, author request)
- ( ) Not specified where they got the data/where data and code are   *Skip to "Terminate survey."*
- ( ) Not applicable - dataless paper/review paper   *Skip to "Terminate survey."*

Availability (....continued)

7. **Q6: Where available?** *
Mark only one oval.

- ( ) Some or all of data/model/code can be found online (GitHub/website/HydroShare etc) or as part of the article (tables,appendix, supplemental material, attachment etc)
- ( ) Data available only in article figures/tables/text   *Skip to "Terminate survey."*
- ( ) All or some are through third Party Request   *Skip to "Terminate survey."*
- ( ) All or some are through author Request   *Skip to "Terminate survey."*

Availability (....continued)

8. **Q7: Which of the followings are present?** *
   Check all that apply.

   ☐ Directions to run or reproduce

   ☐ Code/Model/Software

   ☐ Input data

   ☐ Hardware/Software requirements

   ☐ Stated data persistence policy

   ☐ Materials linked by unique and persistent identifiers

   ☐ Metadata to describe the code

   ☐ Common file format /instructions to open

9. **Q8: Comments. Explanations for features present**

   _____

   _____

   _____

   _____

   _____

10. **Recap: Are all three required elements (Directions, Code/Model/Software, and Input Data) available?** *
    Required to judge reproducibility
    Mark only one oval.

    ◯ Yes (continue to reproduce)

    ◯ No (terminate)   *Skip to "Terminate survey."*

Availability (....continued)

11. **Q9: Do you estimate you and readers could use the available artifacts to generate results?** *
    Mark only one oval.

    ◯ Yes

    ◯ Not sure (unclear materials.....hard to follow)

    ◯ I'm not familiar with the required computational resources.(specify required computational resources (e.g., R, Fortran, Linux)   *Skip to "Terminate survey."*

    ◯ No   *Skip to "Terminate survey."*

Availability (....continued)

12. **Q10: Continue to reproduce results?** *
    Mark only one oval.

    ◯ Yes

    ◯ No- Terminate and come back later   *Skip to question 16.*

Reproducibility

13. **Q11: Do the outputs verify published results (in text, figures, and tables)? ***
Mark only one oval.

   ( ) Some   *After the last question in this section, skip to question 16.*

   ( ) Yes (explain why on Question 12)   *After the last question in this section, skip to question 16.*

   ( ) No (explain why on Questions 13 and 14)   *After the last question in this section, skip to question 14.*

14. **Q12: Explain what made this reproducibility work? Other comments?**

   _____

   _____

   _____

   _____

   _____

Reproducibility (....continued)

15. **Q13: Why did the Reproducibility fail? Click all that apply. ***
Check all that apply.

   [ ] Unclear directions

   [ ] Results differed

   [ ] Did not generate results

   [ ] Hardware/software error

   [ ] Other

16. **Q14: Please explain why the reproducibility failed**

   _____

   _____

   _____

   _____

   _____

Skip to question 16.

Terminate survey
The survey is being terminated due to the lack of a key element to allow reproducibility

Wrap up

17. **Q15: How many minutes did you spend up to this point in the survey? ***

A copy of your responses will be emailed to the address you provided

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