

**From:** [Cynthia Gould](#)  
**To:** [Turabieh, Hamza](#); [Song, Xing](#)  
**Cc:** [Khan, Solaiman](#)  
**Subject:** RE: [1st follow-up] - RE: Connecting you with RSEI experts for your research  
**Date:** Friday, April 18, 2025 1:20:46 PM  
**Attachments:** [image001.png](#)  
[MicrodataFileSchematic\\_V2312\\_20240814.docx](#)

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Hi- It was nice to meet you all today. Here are the materials I promised:

1. Attached is a schematic that shows where all the 2022 (v.2.3.12) data files are. This includes the air microdata and the water microdata.
2. The [microdata documentation](#)
3. The [data tables](#) that the microdata links to. Note that this will move shortly, to the “Older\_Versions” folder. We’re publishing v2.3.13 shortly, and that will be in the “Current\_Version” folder. It’s very important to use the data tables for the correct version, because the indexes change from version to version. Your data is from v.2.3.12.
4. [Drinking water service areas](#). You can download the data on the tab with the map.

Let me know if you have any questions or need anything else.

Cindy

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**From:** Turabieh, Hamza <[hit8zp@health.missouri.edu](mailto:hit8zp@health.missouri.edu)>  
**Sent:** Tuesday, April 15, 2025 3:58 PM  
**To:** Cynthia Gould <[Cynthia.Gould@abtglobal.com](mailto:Cynthia.Gould@abtglobal.com)>; Sumner, Mitchell <[sumner.mitchell@epa.gov](mailto:sumner.mitchell@epa.gov)>; Song, Xing <[xsm7f@health.missouri.edu](mailto:xsm7f@health.missouri.edu)>  
**Cc:** Swenson, Sarah <[Swenson.Sarah@epa.gov](mailto:Swenson.Sarah@epa.gov)>; Khan, Solaiman <[sknnh@missouri.edu](mailto:sknnh@missouri.edu)>  
**Subject:** RE: [1st follow-up] - RE: Connecting you with RSEI experts for your research

**Warning from Abt:** External email. Be careful opening links and attachments.

Hi Cindy,

Thanks for the info. A quick chat sounds good—how about **Friday at 11 AM Central / 12 PM Eastern**? Let me know if that works, and I’ll set up a Zoom link.

Thanks,

Hamza

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**From:** Cynthia Gould <[Cynthia.Gould@abtglobal.com](mailto:Cynthia.Gould@abtglobal.com)>  
**Sent:** Tuesday, April 15, 2025 2:35 PM  
**To:** Turabieh, Hamza <[hit8zp@health.missouri.edu](mailto:hit8zp@health.missouri.edu)>; Sumner, Mitchell <[sumner.mitchell@epa.gov](mailto:sumner.mitchell@epa.gov)>; Song, Xing <[xsm7f@health.missouri.edu](mailto:xsm7f@health.missouri.edu)>  
**Cc:** Swenson, Sarah <[Swenson.Sarah@epa.gov](mailto:Swenson.Sarah@epa.gov)>; Khan, Solaiman <[sknnh@missouri.edu](mailto:sknnh@missouri.edu)>  
**Subject:** RE: [1st follow-up] - RE: Connecting you with RSEI experts for your research

Hi Hamza- The data I sent is just the aggregated air microdata. The water data is a little more

complicated, and we don't have any soil data. Maybe it might be easier if we scheduled a chat and I could explain what we have? I'm free any time tomorrow, Thursday before 1pm Eastern or after 3pm, or anytime on Friday.

Thanks,  
Cindy

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**From:** Turabieh, Hamza <[hit8zp@health.missouri.edu](mailto:hit8zp@health.missouri.edu)>

**Sent:** Tuesday, April 15, 2025 10:49 AM

**To:** Sumner, Mitchell <[sumner.mitchell@epa.gov](mailto:sumner.mitchell@epa.gov)>; Song, Xing <[xsm7f@health.missouri.edu](mailto:xsm7f@health.missouri.edu)>; Cynthia Gould <[Cynthia.Gould@abtglobal.com](mailto:Cynthia.Gould@abtglobal.com)>

**Cc:** Swenson, Sarah <[Swenson.Sarah@epa.gov](mailto:Swenson.Sarah@epa.gov)>; Khan, Solaiman <[sknnh@missouri.edu](mailto:sknnh@missouri.edu)>

**Subject:** RE: [1st follow-up] - RE: Connecting you with RSEI experts for your research

**Warning from Abt:** External email. Be careful opening links and attachments.

Hi Cindy,

We've successfully extracted data like toxicity concentration values, coordinates, and percentile rankings from files such as *gc14\_conus\_810m\_ToxConc.tif*. However, we need to:

1. Extract chemical-specific exposure data rather than just aggregate toxicity concentrations
2. Differentiate between air, water, and soil exposure pathways in the data

Could you point us to which files or fields would contain this data and chemical-specific information?

Alternatively, if there are other resources or datasets that provide chemical-specific exposure data, we'd appreciate any recommendations.

Thanks,

Hamza

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**From:** Sumner, Mitchell <[sumner.mitchell@epa.gov](mailto:sumner.mitchell@epa.gov)>

**Sent:** Thursday, March 27, 2025 4:33 PM

**To:** Song, Xing <[xsm7f@health.missouri.edu](mailto:xsm7f@health.missouri.edu)>; Turabieh, Hamza <[hit8zp@health.missouri.edu](mailto:hit8zp@health.missouri.edu)>; Cynthia Gould <[Cynthia.Gould@abtglobal.com](mailto:Cynthia.Gould@abtglobal.com)>

**Cc:** Swenson, Sarah <[Swenson.Sarah@epa.gov](mailto:Swenson.Sarah@epa.gov)>; Khan, Solaiman (MU-Student) <[sknnh@missouri.edu](mailto:sknnh@missouri.edu)>

**Subject:** RE: [1st follow-up] - RE: Connecting you with RSEI experts for your research

No worries. Please keep us apprised of your work and if you have any more questions in the future.

~Mitch

Mitchell J. Sumner  
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United States Environmental Protection Agency Headquarters  
1200 Pennsylvania Avenue N.W. Mail Code 7410M  
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[Sumner.Mitchell@epa.gov](mailto:Sumner.Mitchell@epa.gov)



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**From:** Song, Xing <[xsm7f@health.missouri.edu](mailto:xsm7f@health.missouri.edu)>  
**Sent:** Thursday, March 27, 2025 12:40 PM  
**To:** Turabieh, Hamza <[hit8zp@health.missouri.edu](mailto:hit8zp@health.missouri.edu)>; Sumner, Mitchell <[sumner.mitchell@epa.gov](mailto:sumner.mitchell@epa.gov)>; Cynthia Gould <[Cynthia.Gould@abtglobal.com](mailto:Cynthia.Gould@abtglobal.com)>  
**Cc:** Swenson, Sarah <[Swenson.Sarah@epa.gov](mailto:Swenson.Sarah@epa.gov)>; Khan, Solaiman (MU-Student) <[sknnh@missouri.edu](mailto:sknnh@missouri.edu)>  
**Subject:** RE: [1st follow-up] - RE: Connecting you with RSEI experts for your research

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My sincere apologies! Hamza just brought to my attention that you had already replied—unfortunately, the email didn't come through to me for some reason. I really appreciate all the information you shared. We'll look into it and reach out if we have any further questions!

Song

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**From:** Song, Xing  
**Sent:** Thursday, March 27, 2025 10:47 AM  
**To:** Turabieh, Hamza <[hit8zp@health.missouri.edu](mailto:hit8zp@health.missouri.edu)>; Sumner, Mitchell <[sumner.mitchell@epa.gov](mailto:sumner.mitchell@epa.gov)>; Cynthia Gould <[Cynthia.Gould@abtglobal.com](mailto:Cynthia.Gould@abtglobal.com)>  
**Cc:** Swenson, Sarah <[Swenson.Sarah@epa.gov](mailto:Swenson.Sarah@epa.gov)>; Khan, Solaiman (MU-Student) <[sknnh@missouri.edu](mailto:sknnh@missouri.edu)>  
**Subject:** [1st follow-up] - RE: Connecting you with RSEI experts for your research  
**Importance:** High

Hi, Mitch and Cynthia,

We would like to follow up on the following two questions regarding integrating RSEI data for our research project. Any advice would be greatly appreciated!

Xing Song

Assistant Professor, Biomedical Informatics, Biostatistics, and Medical Epidemiology

Department (BBME)

Core Faculty, Institute for Data Science and Informatics

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573-882-1352

website: <https://medicine.missouri.edu/faculty/xing-song-phd>

github: [sxinger.github.io](https://github.com/sxinger); [github.com/RWD2E](https://github.com/RWD2E)

[Book time with Song, Xing: Bookable Hours](#)

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**From:** Turabieh, Hamza <[hit8zp@health.missouri.edu](mailto:hit8zp@health.missouri.edu)>

**Sent:** Wednesday, March 19, 2025 2:56 PM

**To:** Swenson, Sarah <[Swenson.Sarah@epa.gov](mailto:Swenson.Sarah@epa.gov)>; Khan, Solaiman (MU-Student)

<[sknnh@missouri.edu](mailto:sknnh@missouri.edu)>; Song, Xing <[xsm7f@health.missouri.edu](mailto:xsm7f@health.missouri.edu)>

**Cc:** Sumner, Mitchell <[sumner.mitchell@epa.gov](mailto:sumner.mitchell@epa.gov)>; Cynthia Gould <[Cynthia.Gould@abtglobal.com](mailto:Cynthia.Gould@abtglobal.com)>

**Subject:** RE: Connecting you with RSEI experts for your research

Hi Mitch,

Following up on Sarah's email, I have a couple of questions regarding the RSEI model and the data for our research:

1. Could you please let me know where I can access the shapefile for the grid cells (i.e., the RSEI grid system) used in the model?
2. I'm also curious about the RSEI score-does it represent only the final calculated score, or is there data available on the individual chemical exposure levels for each grid cell?

Thank you so much for your help. I look forward to hearing from you!

Hamza

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**From:** Swenson, Sarah <[Swenson.Sarah@epa.gov](mailto:Swenson.Sarah@epa.gov)>

**Sent:** Thursday, March 13, 2025 11:32 AM

**To:** Turabieh, Hamza <[hit8zp@health.missouri.edu](mailto:hit8zp@health.missouri.edu)>; Khan, Solaiman (MU-Student)

<[sknnh@missouri.edu](mailto:sknnh@missouri.edu)>; Song, Xing <[xsm7f@health.missouri.edu](mailto:xsm7f@health.missouri.edu)>

**Cc:** Sumner, Mitchell <[sumner.mitchell@epa.gov](mailto:sumner.mitchell@epa.gov)>; Cynthia Gould <[Cynthia.Gould@abtglobal.com](mailto:Cynthia.Gould@abtglobal.com)>

**Subject:** Connecting you with RSEI experts for your research

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Hi, Hamza, Solaiman, and Song,

As a follow up to our meeting yesterday, I want to connect you with my colleague, Mitch, and our wonderful contractor, Cindy. They manage the RSEI model and can help you with the geographic microdata and other aspects of using RSEI/TRI data for your research.

Thanks!

Sarah

Sarah Swenson  
TRI Program Communications & Outreach Lead  
Partner & Stakeholder Engagement Branch  
Office of Chemical Safety and Pollution Prevention  
202-566-0279

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