# Annual Partners Meeting 2023 Report



On February 2, 2023, Prairie Water hosted its Annual Partners Meeting with the theme "Partnerships and tools for water resilient prairie communities". The meeting took place in Saskatoon, Saskatchewan, Treaty 6 Territory and featured research progress updates, a poster session with posters from partners and students, an introduction to the hydrological data product PHyDAP, and a hands-on demonstration of the Data Visualization Dashboard. Another important purpose for the meeting was to obtain guidance from partners on knowledge mobilization, project wrap-up, and future research directions. Later in this report, we highlight input related to knowledge mobilization that we received through a post-meeting survey. We thank all attendees their presence, braving travel to Saskatoon in the cold month of February, and further thank Elder Roland Duquette (Mistawasis Nêheyiwak), who kindly opened and closed our meeting in a good way.

#### **ATTENDANCE**

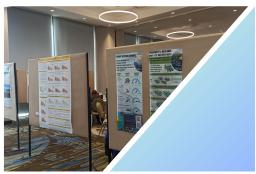
- 55 attendees out of 75 registered
  - 30 partners from 19 organizations including watershed stewardship groups (AB, SK, MB), provincial and federal bodies, environmental non-profits, and an Indigenous organization
  - 11 Prairie Water investigators
  - 14 other researchers and students

#### **MEETING CONTENT**

- Global Water Futures Introduction
- 3 Prairie Water research presentations
- Research application presentation
- Hands-on Dashboard demonstration
- Small group discussion
- Poster Session
  - o 3 posters from partner groups
  - 11 posters from students/researchers





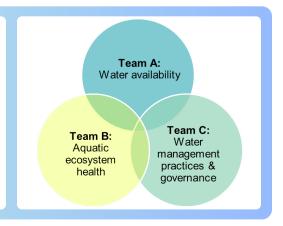


# Research Updates

#### **Prairie Water**

We heard an overview from Dr. Colin Whitfield on Prairie Water research from our three Teams. Research findings are summarized in our *Summary of Research Progress* (May 2023).

In Dr. Graham Strickert's presentation, we heard more about water governance research from multiple students with the overarching message being that "Collaboration is essential to water governance and research-based tool development that aims to be Inclusive, Accessible, and Responsive".



#### **Global Water Futures**

Prairie Water is one of 65 projects under the <u>Global Water Futures</u> (GWF) umbrella. Dr. John Pomeroy gave an overview of GWF-supported advances for science, policy and practice, including:

- First national water predictions
- Interdisciplinary hydrological models (including glaciers, water management, water quality, and crop growth)
- The **Virtual Water Gallery**, a scienceart collaboration
- Key role in the formation of a Canada Water Agency
- Indigenous co-development of research
- Resources for advancing Equity, Diversity, and Inclusion in water research

# 65 Projects & Core Teams

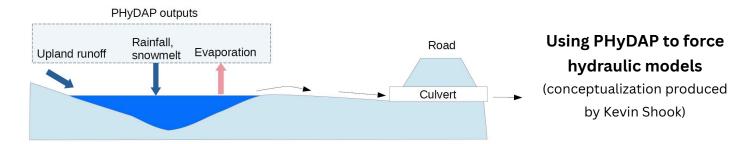


Infographic produced by GWF Secretariat

### Research-based Tools for Practitioners

### Prairie Hydrology Design and Analysis Product (PHyDAP)

PHyDAP is a set of high-quality, long-term, and localized hydrological data. PHyDAP was developed to help provide solutions to *local water problems* and can be used to design water infrastructure, model returnperiods, and model flooded areas. Dr. Kevin Shook, the primary developer of PHyDAP, explained the purpose of PHyDAP and why it is a huge improvement on typical rating-curve-based methods. Amir Khatibi demonstrated that flooded areas mapped using PHyDAP were similar to flooded areas from satellite imagery, showing that PHyDAP produces well-estimated results. Find out more in our <u>Summary of Research Progress</u> (May 2023).

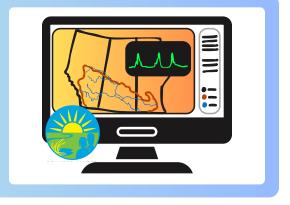


#### **Data Visualization Dashboard**

In an interactive, hands-on session, attendees used their personal computers to explore the Data Visualization Dashboard. This Dashboard features much of the spatial (maps) and time-series (graphs) data produced through Team A and B. We asked attendees for feedback, since the dashboard is still undergoing development.

#### **Explore the Dashboard here:**

https://gwf-vis.usask.ca/prairiewater/



## Partner Feedback

Overall, partners and researchers were most concerned about:

- a. Engagement with and training for practitioners to ensure use of tools
- b. Ensuring that results are publicly accessible, understandable (plain language), and preserved.

### **Discussion Questions and Responses**

Three questions were given to small groups (combination of researchers and partners) to discuss with approximately ten minutes for each question (there was a notetaker for each group). The same three questions were included in a survey to partners sent two months after the Annual Partners Meeting. We compiled all responses and identified key themes for each question (Table 1).

#### **QUESTIONS TOP THREE THEMES** (% of responses dedicated to each theme) A. How can we more effectively Engage partner network (26%) Adjust language for audience (16%) communicate and 'mobilize' what Demonstrate applicability/usefulness (10%) we've learned so far? Communicate results (21%) **B.** What do you most want to see Training on tools (18%) achieved, as we move towards Data accessible (14%) the end of this program? • Water security (26%) **C.** What do you see as priority Tools in use (14%) areas for future research and Adaption (7%), communication (7%), integration (7%), modeling practice beyond Prairie Water? that is accessible, relevant, and communicated (%7), and partner

### **Explanation of Top Themes in Responses**

The themes are generalizations of actual feedback. The top theme for each question encompasses a variety of responses. Additionally, a common thread across each of the questions was "Tools and training"; sharing tools and providing training on how to use the tools were key aspects of "Partner engagement" and "Communication".

engagement (7%).

#### **Engage Partner Network**

Be present at meetings, conventions, and AGMs of partner organizations

Engage partners on their territory; in-person interactions are valuable

Reach key groups of end users (first adopters, industry leaders, champions, boundary organizations)

#### <u>Communication</u>

Communicate project results and outputs with partners using multiple channels

Encourage conversations between researchers and partners

Translate results to plain language and formats that are accessible

#### Water security

Priority research areas identified by partners and researchers:

- water availability
- water quality
- develop water quality tool
- droughts and flooding
- impacts of historical and current human activity
- water management solutions to mitigate risks
- human dimensions of water security (such as social values)



Thanks to all the partners and researchers of Prairie Water (photo from Mark Ferguson)

#### May 2023

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**Acknowledgements**: Thank you to all the presenters and attendees without whom this work would not be possible. Special thanks to the Co-Principal Investigators, Dr. Colin Whitfield and Dr. Chris Spence, for their leadership.



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Prairie Water's vision is to gather and create useable knowledge to build resilient communities by ensuring sustainable watershed management and governance on the Canadian Prairies