



State Water Plan Update Potomac Water Resources Regional Committee Meeting

October 10, 2024

1:00 p.m. - 3:00 p.m.

Virtual Microsoft Teams Meeting

Committee Members in Attendance:

Pat Bowling, P.G.
Adrian Bouknight
Adam McClain
Heidi Moltz, Ph.D.
Kevin Moore, P.E.
Pat Naugle, P.E.
Dr. Sarah Principato
Brent Ramsey

Others in Attendance:

James Horton – DEP
Susan Weaver, P.E. – DEP

Bob Whitmore - Strategic Consulting Partners
Jenny Gallagher Blom – Strategic Consulting Partners

Visitors:

Trent Machamer

Welcome

James Horton, DEP, welcomed everyone to the meeting, explained the meeting was being recorded, and provided helpful hints on the use of technology.

Election of Chair and Vice-Chair Positions

Adam McClain volunteered to serve as acting Chair for the meeting. Pat Naugle volunteered to serve as Vice-Chair for the meeting. The appointment of Adam as acting Chair and Pat as Vice-Chair for the meeting was approved on a Kevin Moore / Brent Ramsey motion.

Public Comment

Acting Chair McClain opened the meeting for public comment. An opportunity to express comments verbally or in the chat box was offered. There was no public comment.

Meeting Summary

The summary of the April 11, 2024 meeting was reviewed by the committee members. The meeting summary was accepted as presented on a Pat Naugle / Kevin Moore motion.

Bylaws

James (DEP staff) reviewed Article XII of the Potomac Committee Bylaws. The current bylaws state the following about amending the bylaws: “the By-Laws may be amended at any meeting of the Regional Committee by two-thirds vote of the full Regional Committee membership (15 voting members).” James said internal review of the bylaws by legal counsel is asking this article to be corrected to state:

“The By-Laws may be amended at any meeting of the Regional Committee by a simple majority vote of the full Regional Committee membership provided that written notice of such change has been sent via certified mail with a return receipt to each member at least two weeks prior to the meeting.”

This change will align the bylaws with Act 220. The legal opinion is this is a change to comply with the Act and does not need to be voted on by the committee as a bylaw change.

A Pat Naugle / Kevin Moore motion was offered for consensus of available committee members to confirm acceptance of the proposed correction to the by-laws.

DEP Update

James Horton, DEP, provided an overview presentation of the state water planning process and the direction forward.

DEP Team

- Sue Weaver, P.E., Environmental Program Manager, Interstate Water Resources Management
- James Horton – Environmental Group Manager, Water Use and Planning Section
- David Jostenski – Walter Program Specialist

Regional Committee Objectives

2025 – Draft regional content

2026 Q1 – Combined Public Hearing and Meeting

2026 Q3 – Send to Statewide Committee for Approval

Five Year Plan

2023 – Outreach/Recruitment/Review

2024 – Implementation and Analysis

2025 – Workgroups and drafting content

2026 – Editing/Compiling public content

Outreach

Upcoming tools:

Webpage with key plan details, partner links, and examples of Integrated Water Resource Management (IWRM) projects.

Analysis

- IWRM work group planning.

Critical Area Resource Plans (CARPS)

- Back Creek, Ohio Region – In review phase with DEP
- Laurel Hill Creek CARP, Ohio Region – In review phase with DEP
- Marsh and Rock Creeks CARP, Potomac Region, In review phase with DEP

Committee Health

Eleven proposed committee members for regional committees are currently in the review and approval process, and applications have been sent to the Governor's office for appointment to the committees.

Roles to Fill in Potomac Regional Committee

- CCD Director x 2
- County Government x 2
- Horticulture
- Agriculture
- Public Water Supply
- Public Wastewater
- Industrial, Commercial, Energy
- Environment and Conservation x 2
- Local Government x 3

Recruiting New Members Process



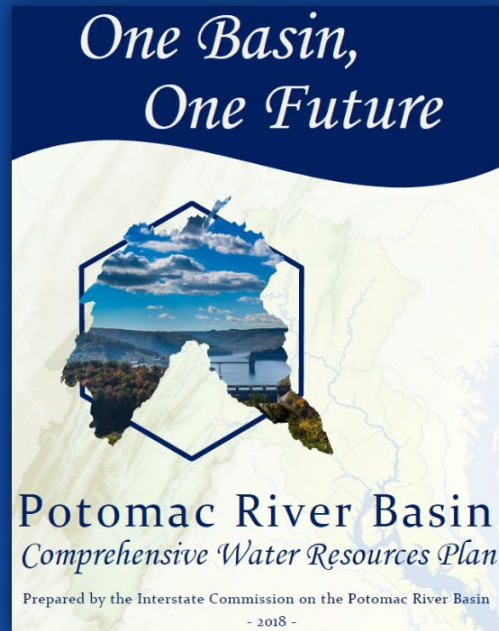
Presentation by Heidi Moltz, Ph.D., Interstate Commission for the Potomac River Basin

Outline

Basin-wide Planning Overview
Available Resources

potomacriver.org
bit.ly/basin_plan

Heidi Moltz



Plan cover photo by Robyn Phillips Photography.

Potomac Basin

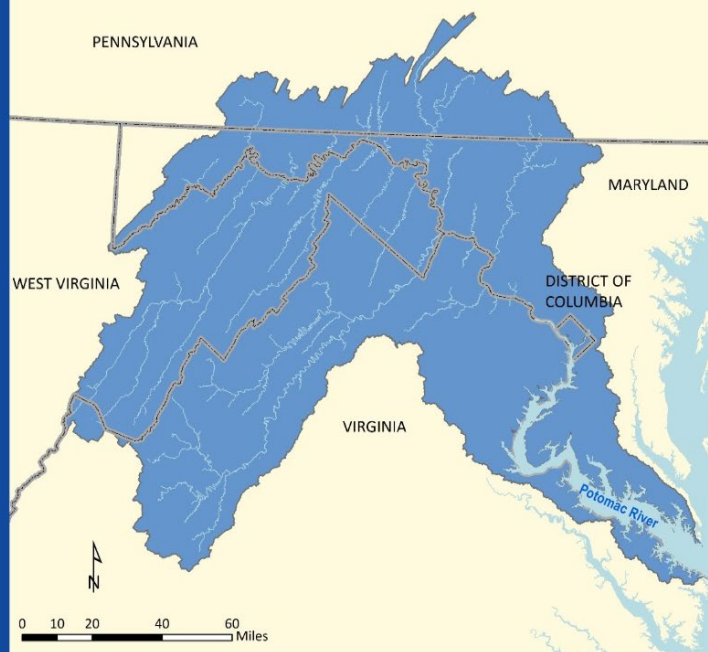
14,670 sq. mi.

4 states and DC

5 physiographic provinces

6.9M basin residents, 80% in DC
metro area

Heidi Moltz



Potomac Basin Comprehensive Water Resources Plan

Framework
Collaborative
Adaptive
Integrated
Participatory



Comprehensive Water
Resources Plan



Heidi Moltz

Participation



Heidi Moltz

Photo by Renee Bourassa, ICPRB.

Committee pictured. Advisory Committee meeting N2023



PURPOSE

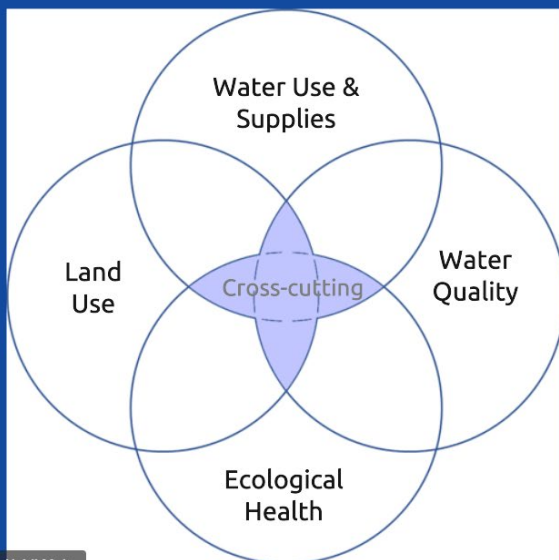
The purpose of this plan is to identify and develop management recommendations for water resources issues of interstate and/or basin-wide significance. It aims to facilitate achievement of common goals, including protection of water supplies, drinking water sources, water quality, and aquatic life.



Heidi Moltz



CHALLENGE AREAS



Heidi Moltz

MILESTONES: “The purpose of this section is to identify measurable milestones to determine whether recommendations are being implemented as planned. The milestones discussed in this section focus primarily on ICPRB activities; however, achievement of the goals set forth in this plan requires collaboration and partnership with numerous organizations.”

MEASURES OF SUCCESS: “The tangible products of implementing recommendations under each challenge area...”



2023 Updates

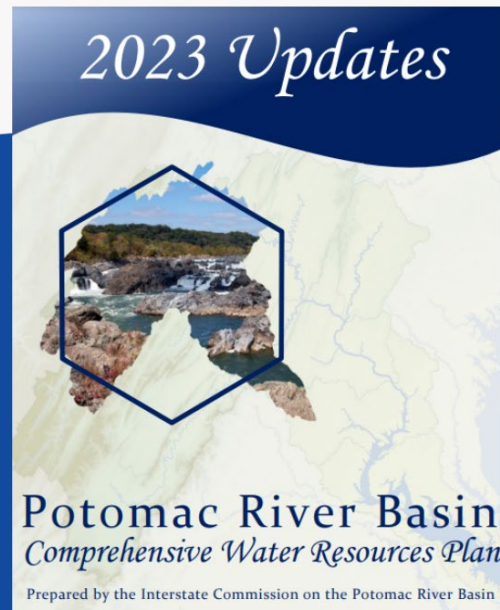
Reconvened Advisory Committee (met 7 times)

Reviewed implementation progress over past 5 years

Set the to-do list for the next 5 years

Adopted by the Commission at the March 2024 business meeting

Heidi Moltz



Adaptive Implementation

Implementation (ongoing)

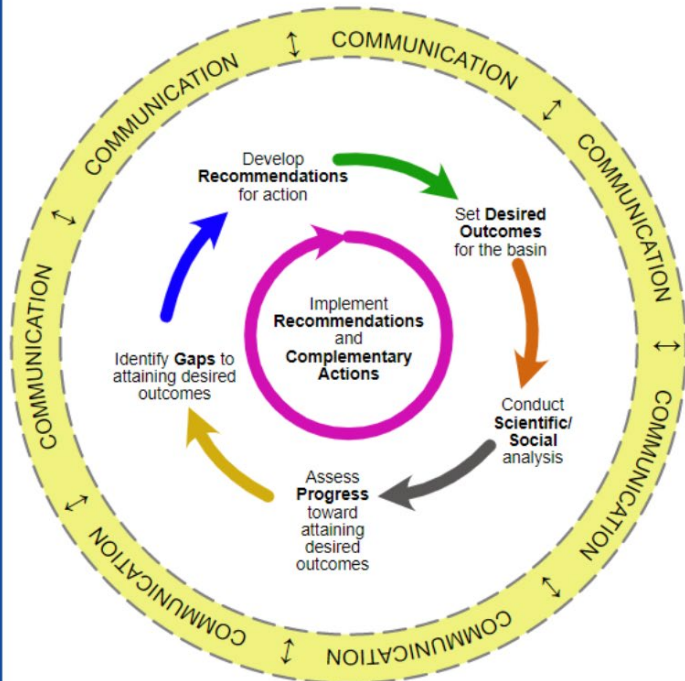
Communication (ongoing)

Assess Progress (5 years, 2028)

Review and Revise Full Plan (15 years, 2033)

The plan is available for download online at https://www.potomacriver.org/basin_plan.

Heidi Moltz



Considerations

Independent facilitators

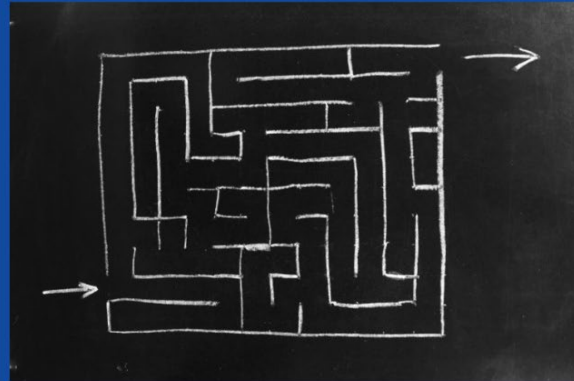
AC member turnover

Maintaining engagement

Importance of in-person meetings

Adaptive process is essential

Bringing results to life



Heidi Moltz

Available Resources



Heidi Moltz



Addressing emerging challenges and ensuring a reliable water supply for the future requires vigilance and collaboration.

WE ARE

A partnership of water suppliers and government agencies working to advance our shared mission

WE OFFER

- Quarterly meetings to educate members about research, regulatory affairs, and emerging issues
- Opportunities to share best practices for improving water quality and minimizing operational costs
- Focused work groups:
 - Agricultural Issues
 - Early Warning & Emergency Response
 - Reaching Out
 - Urban & Industrial Issues
 - Contaminants of Emerging Concern
 - Water Quality

PARTNERSHIP COORDINATOR

Interstate Commission on the Potomac River Basin
partnership@icprb.org | potomacdwspp.org

AMPLIFYING REGIONAL SOURCE WATER PROTECTION EFFORTS SINCE 2005

Newsletter:



Land Use Webinar Series

Bi-annual
Lunchtime
Timely topics
Free

Email hmoltz@icprb.org

- Water Resources Impacts of Data Centers and Solar Fields and Tools to M
 Interstate Commission on the Potomac River Basin • 244 views • 2 months ago
- WEBINAR: Agricultural Impacts on Water Quality and Funding Opportunitie
 Interstate Commission on the Potomac River Basin • 86 views • 6 months ago
- Innovations in Sustainable Agriculture
 Interstate Commission on the Potomac River Basin • 94 views • 1 year ago
- Combating Climate Change through Sustainable Development (Webinar)
 Interstate Commission on the Potomac River Basin • 52 views • 1 year ago
- Winter Salt Management Webinar
 Interstate Commission on the Potomac River Basin • 75 views • 2 years ago
- Supporting Land Use Decision Makers in the Potomac River Basin
 Interstate Commission on the Potomac River Basin • 84 views • 3 years ago
- Webinar: Spring into Nutrient Management
 Interstate Commission on the Potomac River Basin • 47 views • 2 years ago

Potomac River Conferences

Annual, In Person, Day-long, Timely topics

2024 Potomac River Conference:
Reeling in the Challenge of Aquatic Invasive Species

October 17, Lorton, Virginia

REGISTER HERE:

<https://www.potomacriver.org/event/2024-potomac-conference-reeling-in-the-challenge-of-aquatic-invasive-species/>

Heidi Moltz

INTERSTATE COMMISSION ON THE POTOMAC RIVER BASIN

ONE RIVER'S PERSPECTIVE ON A CHANGING CLIMATE

POTOMAC RIVER CONFERENCE
SEPTEMBER 21, 2023

LEARN MORE AT WWW.POTOMACRIVER.ORG



2022 POTOMAC RIVER CONFERENCE

CONVERSATION ON PFAS

THREATS ON 'FOREVER' CHEMICALS IN THE POTOMAC BASIN

Session 1:
Opening

Interstate Commission on the Potomac River Basin



<https://storymaps.arcgis.com/stories/2fcf6517e266414a9c5186f84ce73c31>

Winter Salt Wise

The Potomac and nearby rivers are getting saltier. Learn how everyone can protect our waterways by using less winter salt.

Heidi Moltz

Interstate Commission on the Potomac River Basin

Stream Health

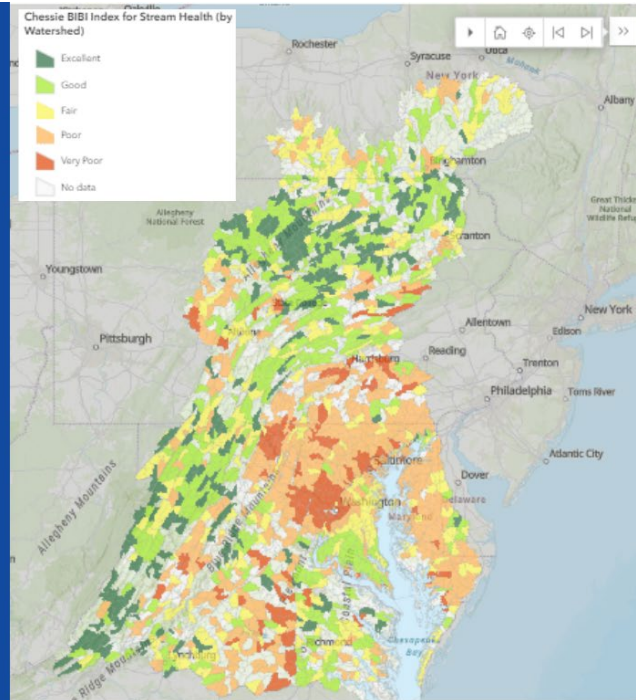
“Chessie BIBI”

Measure of overall condition of stream macroinvertebrates

Indicator of stream health

Used by scientists at the Chesapeake Bay Program

<https://www.potomacriver.org/focus-areas/aquatic-life/macroinvertebrates/chessie-bibi-index-for-streams/interactive-map/>



Impervious Cover Tool

Will Runoff Alter your Streamflow?
A look at flow alteration from impervious cover

We know...

Very small amounts of impervious cover – less than 2% of watershed cover – can impact local streamflow.

But...

Are all the streams and rivers in the Potomac basin equally impacted by impervious cover?

So we asked...

Are there some watershed characteristics that make an area's streams more susceptible to flow i...
These characteristics include watershed area, karst geology, precipitation, soil characteristics, p...

And we made a map...

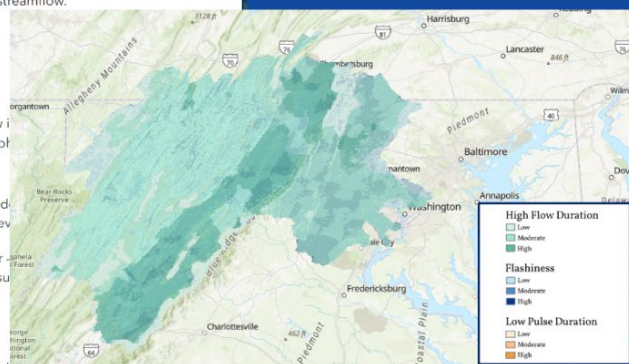
While many areas in the Potomac basin already exceed 2% impervious cover, the map assists in id...
the least potential impacts to streamflow and increase awareness of the hydrologic impacts of dev...

The map's three layers help explore the impacts of impervious cover in your region. Each layer...
Pulse Duration – shows a type of susceptibility to flow alteration from impervious cover. High su...
low susceptibility is shown in lighter colors for all three metrics.

Click the orange button in the upper righthand corner to see the map.

An area may be highly susceptible to changes in one, two, or all three flow metrics. Understanding the type of expected changes...
can inform development decisions and preparations for impacts.

An enhanced understanding of how to minimize negative impacts of impervious cover promotes proactive, thoughtful land use & water resources management decision making.



<https://experience.arcgis.com/experience/c4ca89d94a9a450d826d9184d74f4a70/page/Report-Page/>



Land Prioritization Mapping

<https://storymaps.arcgis.com/stories/29c7a0fe663c4de99e45071c06cf7a7c>

Map of Priority Parcels

This map was the product of eight drinking water suppliers asking, "Which parcels of land in the Potomac River basin are the most beneficial to drinking water?"

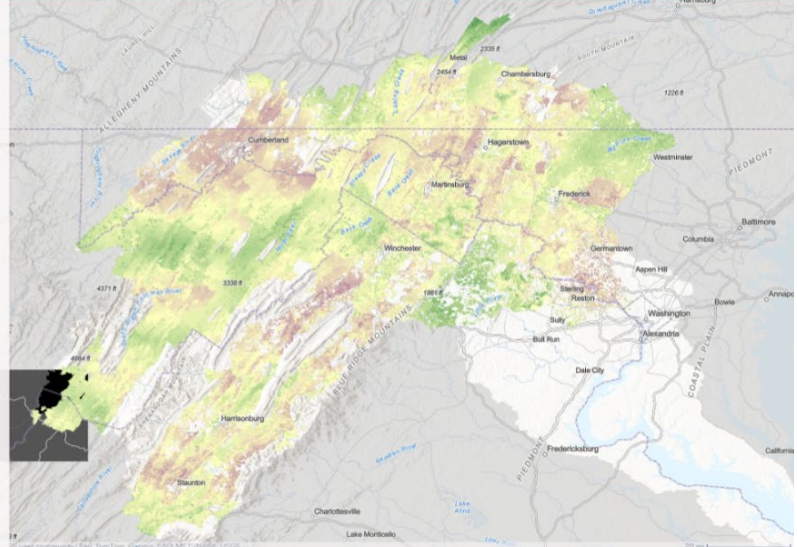
The resulting project, the Land Prioritization Mapping for Protecting Drinking Water Quality Project, prioritized land parcels for conservation from a drinking water source protection perspective in the Potomac basin. Higher-priority parcels are shown in purple. Lower-priority parcels are shown in green.

This map shows a rough overview of the parcels. Contact ICPRB for the GIS mapping layer that can provide more detailed information on your area of interest.

Priority Level for Conservation



Heidi Moltz



Water Quality Data Inventory

https://icprb.shinyapps.io/shiny_wqdi/

Water Quality Data Inventory

Filter Download List

Show 50 entries

	Parameter Group	Metric Parameter	State	County	Watershed Information	Program Name	Fall Line	Purpose
1	Phosphorus	Orthophosphate			Tidal Potomac and Potomac Tributaries	CBP Water Quality Database (Historic)	Both	CBP historic water quality
2	Phosphorus	Total phosphorus			Tidal Potomac and Potomac Tributaries	CBP Water Quality Database (Historic)	Both	CBP historic water quality
3	Salinity	Salinity			Tidal Potomac and Potomac Tributaries	CBP Water Quality Database (Historic)	Both	CBP historic water quality
4	Temperature	Temperature, Water			Tidal Potomac and Potomac Tributaries	CBP Water Quality Database (Historic)	Both	CBP historic water quality
5	TSS	Total suspended solids			Tidal Potomac and Potomac Tributaries	CBP Water Quality Database (Historic)	Both	CBP historic water quality
6	Turbidity	Water transparency			Tidal Potomac and Potomac Tributaries	CBP Water Quality Database (Historic)	Both	CBP historic water quality
7	Acidity	Acidity			Non-Tidal Potomac Basin	CBP Benthic Invertebrate Database	Above	CBP non-tidal benthic database, water quality components
8	Alkalinity	Alkalinity			Non-Tidal Potomac Basin	CBP Benthic Invertebrate Database	Above	CBP non-tidal benthic database, water quality components
9	Aluminum	Total Aluminum			Non-Tidal Potomac Basin	CBP Benthic Invertebrate Database	Above	CBP non-tidal benthic database, water quality components
10	ANC	ANC			Non-Tidal Potomac Basin	CBP Benthic Invertebrate Database	Above	CBP non-tidal benthic database, water quality components
11	Bacteriological	Fecal coliform			Non-Tidal Potomac Basin	CBP Benthic Invertebrate Database	Above	CBP non-tidal benthic database, water quality components
12	Calcium	Calcium			Non-Tidal Potomac Basin	CBP Benthic Invertebrate Database	Above	CBP non-tidal benthic database, water quality components

Heidi Moltz

www.icprb.com

IWRM Workgroup Discussion

A workgroup to discuss IWRM was created from volunteers of the regional committees and the statewide committee.

- The workgroup held three meetings – May, June, July
- The workgroup decided that IWRM is a collection of principles.
- The IWRM definition used by the workgroup was:

IWRM Definition

"[IWRM is] an approach to managing water that looks holistically at the planning and management of water supply, wastewater, and stormwater systems. IWRM focuses on the water cycle as a single connected system and promotes coordinated development and management of water, land, and related resources to maximize the economic and social benefits while minimizing impacts on the environment."

American Planning Association

<https://www.planning.org/knowledgebase/watermanagement/>



Findings

- A holistic approach is best to achieve results.
- Collaboration between stakeholders is important.
- Framework for IWRM work – IWRM Principles and IWRM Outcomes:
 - Implementors – people working on the ground and implementing ideas.
 - Resources – to provide background information and data for decision making.
 - Decision makers – planning and coordination

Suggested Actions

- Pre-application meetings
- Connect local stakeholders with resources and tools.
- Catalogue existing efforts and compile a body of knowledge that others can replicate.

Discussion

- York County has an IWRM plan.
- Regulations and laws change, and it is difficult to keep an IWRM plan updated.
- Pennsylvania is fragmented with local government efforts and hard to coordinate on a county basis.

Items in the chat

None

Next Steps

Next meeting – The next Potomac Regional Committee meeting will be held in October 2025. Adam McClain suggested advertising the meeting as a hybrid meeting, and the Ag Center in Gettysburg could be offered as an onsite meeting venue for the meeting.

The meeting was adjourned at 2:35 p.m. by the acting Chair.

DRAFT